

Drawings  
[Figure 1]  
Fig. 1

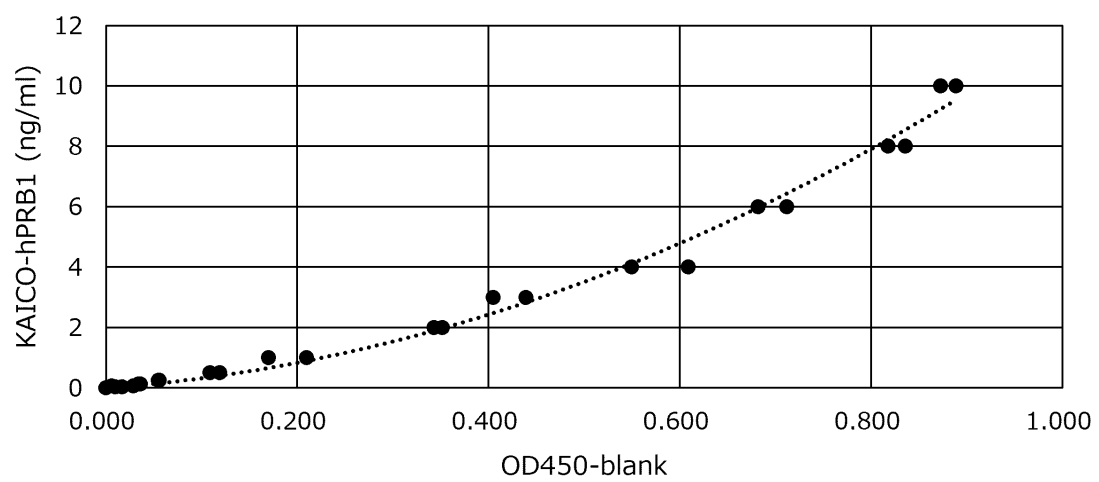
| Anti body | Region                                          | Sequence                                                                                                                                                                                                                                                                                                                                                                                                         | SEQ ID NO: |
|-----------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 8A10      | Heavy chain variable region peptide sequence    | MGWICILFLVATATGVHSQVNLLQSGAALVKPGASVKLSCKASGYTFTDYYIHWVRQSHGKSLEWIGFINPNSGYTTYNEKFKSKATLTVDKSTNTAYMELSRLTSEDSATYYCTRFAMDAWGQGASVTVSS                                                                                                                                                                                                                                                                             | 1          |
|           | Heavy chain variable region nucleotide sequence | ATGGGATGGATCTGTATCCTCTTTCTTGTGGCAACAGCTACAGGTGTCCACTCCCAGGTCAACCTACTGCAGTCTGGGGCTGCACTGGTGAAGCCTGGGGCCTCTGTGAAGTTGTCTTGCAAAGCTTCTGGTTATACATTCAGTACTACTATATACACTGGGTGAGGCAGAGTCA TGGAAAGAGCCTTGAGTGGATTGGCTTTATTAATCCTAACAGTG GTTATACTACTTACAATGAAAAGTTCAAGAGCAAGGCCACATTG ACTGTAGACAAATCCACCAATACAGCCTATATGGAGCTTAGCAG ATTGACATCTGAGGACTCTGCAACCTATTACTGTACAAGATTGTC CATGGATGCCTGGGGTCAAGGAGCTTCAGTCACTGTCTCCTCA | 2          |
|           | Heavy chain CDR1 peptide sequence               | DYYIH                                                                                                                                                                                                                                                                                                                                                                                                            | 3          |
|           | Heavy chain CDR2 peptide sequence               | FINPNSGYTTYNEKFKS                                                                                                                                                                                                                                                                                                                                                                                                | 4          |
|           | Heavy chain CDR3 peptide sequence               | FAMDA                                                                                                                                                                                                                                                                                                                                                                                                            | 5          |
|           | Light chain variable region peptide sequence    | MMSPVQSLFLLLLWLGTNGDVVVSQTPPTLSATIGQSVSISRSSQSLLHSNGNTYLNWLLQRPQPPQLLIYLSRLESGVPNRFSGSGSGTDFTLKISGVEADLGVYYCVQSIHAPNTFGAGTKLELK                                                                                                                                                                                                                                                                                  | 6          |
|           | Light chain variable region nucleotide sequence | ATGATGAGTCCTGTCCAGTCCCTGTTTTGCTATTGCTTTGGATTCTGGGAACCAATGGTGATGTTGTGGTGAGCCAGACTCCACCACTTTATCGGCTACCATTGGACAATCAGTCTCCATCTCTTGCAAGTCAAGTCAGAGTCTCTTACATAGTAATGGAAACACCTATTTAAATTGGTTACTACAGAGGCCAGGCCAACCTCCACAACCTCTAATTTATTGGTATCCAGACTGGAATCTGGGGTCCCCAACAGGTTCAAGTGGCAGTGGGTCAGGAACCTGATTTCACTCAAAATCAGTGGAGTAGAGGCTGAGGATTTGGGAGTTTATTACTGCGTGCAAAGTATCCATGCTCCGAACACGTTTGGAGCTGGGACCAAGCTGGAAGTAAAA        | 7          |
|           | Light chain CDR1 peptide sequence               | RSSQSLLHSNGNTYLN                                                                                                                                                                                                                                                                                                                                                                                                 | 8          |
|           | Light chain CDR2 peptide sequence               | LVSRLS                                                                                                                                                                                                                                                                                                                                                                                                           | 9          |
|           | Light chain CDR3 peptide sequence               | VQSIHAPNT                                                                                                                                                                                                                                                                                                                                                                                                        | 10         |

[Figure 2]

**Fig. 2**

| Anti body | Region                                          | Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SEQ ID NO: |
|-----------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 2B3       | Heavy chain variable region peptide sequence    | MDWVWNLLFLMAVAQTGAQAQIQLVQSGPELKKPGESVKISCK<br>ASGYTFTDYAMHWVKQAPGKGLKWMGWINTYTGKPTYADDCK<br>GRFVFSLEASASTANLQISNLKNEDTATYFCAREMYTTDYYYVDYW<br>GQGVMTVSS                                                                                                                                                                                                                                                                                                                   | 11         |
|           | Heavy chain variable region nucleotide sequence | ATGGATTGGGTGTGGAACCTTGCTATTTCTGATGGCAGTTGCCCA<br>AACAGGTGCCCAAGCACAGATCCAGTTGGTACAGTCTGGACCT<br>GAGCTGAAGAAGCCTGGAGAGTCCGTGAAGATCTCCTGCAAG<br>GCTTCTGGGTATACCTTCACAGACTATGCAATGCACTGGGTGAA<br>ACAGGCTCCAGGAAAGGGCTTGAAGTGGATGGGCTGGATCAA<br>CACCTATACTGGGAAGCCAACATATGCTGATGACTGCAAAGGA<br>CGGTTTGTCTTCTCTTTGGAAGCCTCTGCCAGCACTGCAATTTG<br>CAGATCAGCAACCTCAAAAATGAGGACACGGCTACATATTTCTG<br>TGCAAGAGAAATGTATACTACGGATTATTACTACGTGGATTACT<br>GGGCCAAGGAGTCATGGTCACAGTCTCCTCA | 12         |
|           | Heavy chain CDR1 peptide sequence               | DYAMH                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13         |
|           | Heavy chain CDR2 peptide sequence               | WINTYTGKPTYADDCKG                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14         |
|           | Heavy chain CDR3 peptide sequence               | EMYTTDYYYVDY                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15         |
|           | Light chain variable region peptide sequence    | MLHRNMNMPTQLLGLLLLWFTGGKCDIHVTQSPASLSASPEEIVTI<br>TCQASQDIDSSLLWYQQKPGKSPQLLIYSATILADGVPSRFSGRSG<br>TQYSLKISRLQVEDIGTYCYCLQFSSSPLTFGSGTKLEIK                                                                                                                                                                                                                                                                                                                               | 16         |
|           | Light chain variable region nucleotide sequence | ATGTTACACAGAAACATGAACATGCCCACTCAACTCCTTGGGTT<br>GCTGCTACTCTGGTTTACAGGTGGTAAATGTGACATCCATGTGA<br>CACAGTCTCCTGCCTCCCTGTCTGCATCTCCGGAAGAAATTGTC<br>ACCATCACATGCCAGGCAAGCCAGGACATTGATAGTTCTGTTATT<br>ATGGTATCAGCAGAAACCAGGGAAATCTCCTCAGCTCCTGATCT<br>ATAGTGCAACCATCTTGGCAGATGGGGTCCCATCAAGGTTTCAG<br>TGGCAGTAGATCTGGCACACAGTATTCTTTAAGATCAGCAGAC<br>TACAGGTTGAAGATATTGGAACCTATTACTGTCTACAGTTTTCTA<br>GTTCTCCGCTCACGTTTCGGTCTGGGACCAAGCTGGAGATCAAA                              | 17         |
|           | Light chain CDR1 peptide sequence               | QASQDIDSSLL                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18         |
|           | Light chain CDR2 peptide sequence               | SATILAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 19         |
|           | Light chain CDR3 peptide sequence               | LQFSSSPLT                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20         |

[Figure 3]  
Fig. 3

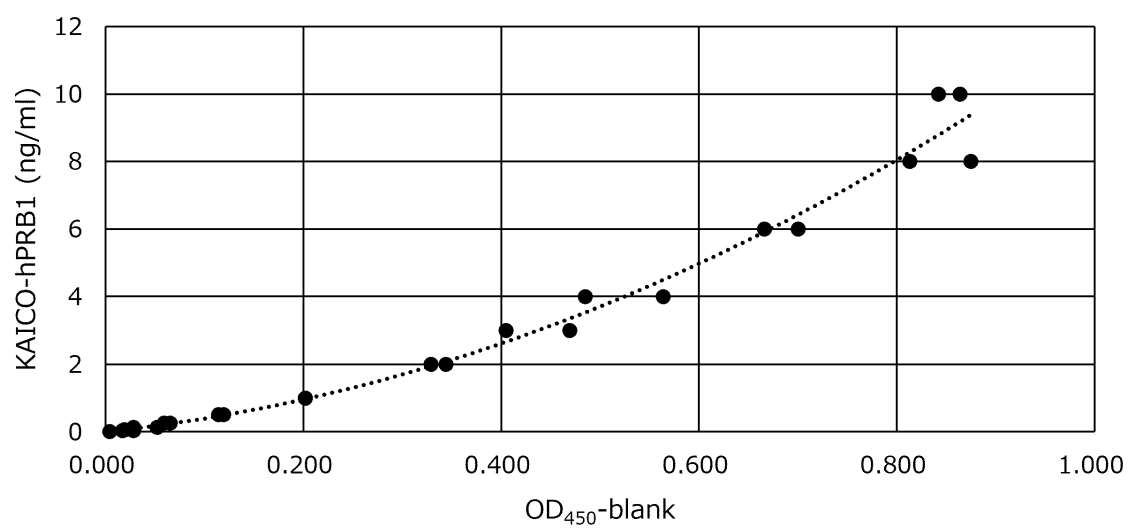


[Figure 4]

Fig. 4

| NO. | OD <sub>450</sub> | -blank | y       | ng/mL   | NO. | OD <sub>450</sub> | -blank | y       | ng/mL   |
|-----|-------------------|--------|---------|---------|-----|-------------------|--------|---------|---------|
| 732 | 0.466             | 0.329  | 1.7704  | 177.04  | 758 | 0.543             | 0.406  | 2.4832  | 248.32  |
| 733 | 0.184             | 0.047  | 0.1264  | 12.64   | 759 | 0.172             | 0.035  | 0.0901  | 9.01    |
| 734 | 0.907             | 0.770  | 7.3854  | 738.54  | 760 | 0.934             | 0.797  | 7.8499  | 784.99  |
| 735 | 0.160             | 0.023  | 0.0566  | 5.66    | 761 | 0.700             | 0.563  | 4.2873  | 428.73  |
| 736 | 0.698             | 0.561  | 4.2614  | 426.14  | 762 | 0.894             | 0.757  | 7.1668  | 716.68  |
| 737 | 0.429             | 0.292  | 1.4681  | 146.81  | 763 | 0.277             | 0.140  | 0.5007  | 50.07   |
| 738 | 0.921             | 0.784  | 7.6245  | 762.45  | 764 | 0.240             | 0.103  | 0.3320  | 33.20   |
| 739 | 0.919             | 0.782  | 7.5901  | 759.01  | 765 | 0.547             | 0.410  | 2.5233  | 252.33  |
| 740 | 0.983             | 0.846  | 8.7283  | 872.83  | 766 | 0.974             | 0.837  | 8.5635  | 856.35  |
| 741 | 0.920             | 0.783  | 7.6073  | 760.73  | 767 | 0.862             | 0.725  | 6.6423  | 664.23  |
| 742 | 0.149             | 0.012  | 0.0283  | 2.83    | 768 | 0.237             | 0.100  | 0.3195  | 31.95   |
| 743 | 0.456             | 0.319  | 1.6861  | 168.61  | 769 | 0.221             | 0.084  | 0.2555  | 25.55   |
| 744 | 1.341             | 1.204  | 16.5370 | 1653.70 | 770 | 1.040             | 0.903  | 9.8077  | 980.77  |
| 745 | 0.608             | 0.471  | 3.1730  | 317.30  | 771 | 1.010             | 0.873  | 9.2319  | 923.19  |
| 746 | 0.571             | 0.434  | 2.7704  | 277.04  | 772 | 0.190             | 0.053  | 0.1455  | 14.55   |
| 747 | 0.504             | 0.367  | 2.1080  | 210.80  | 773 | 0.519             | 0.382  | 2.2489  | 224.89  |
| 748 | 0.876             | 0.739  | 6.8694  | 686.94  | 774 | 0.460             | 0.323  | 1.7196  | 171.96  |
| 749 | 0.826             | 0.689  | 6.0757  | 607.57  | 775 | 0.425             | 0.288  | 1.4370  | 143.70  |
| 750 | 0.346             | 0.209  | 0.8852  | 88.52   | 776 | 0.816             | 0.679  | 5.9227  | 592.27  |
| 751 | 0.139             | 0.002  | 0.0045  | 0.45    | 777 | 0.965             | 0.828  | 8.4003  | 840.03  |
| 752 | 0.314             | 0.177  | 0.6956  | 69.56   | 778 | 0.854             | 0.717  | 6.5143  | 651.43  |
| 753 | 0.585             | 0.448  | 2.9197  | 291.97  | 779 | 0.666             | 0.529  | 3.8567  | 385.67  |
| 754 | 0.740             | 0.603  | 4.8222  | 482.22  | 780 | 1.088             | 0.951  | 10.7649 | 1076.49 |
| 755 | 0.507             | 0.370  | 2.1358  | 213.58  | 781 | 0.850             | 0.713  | 6.4507  | 645.07  |
| 756 | 0.373             | 0.236  | 1.0604  | 106.04  | 782 | 0.466             | 0.329  | 1.7704  | 177.04  |
| 757 | 0.787             | 0.650  | 5.4898  | 548.98  | 783 | 0.926             | 0.789  | 7.7108  | 771.08  |

[Figure 5]  
Fig. 5

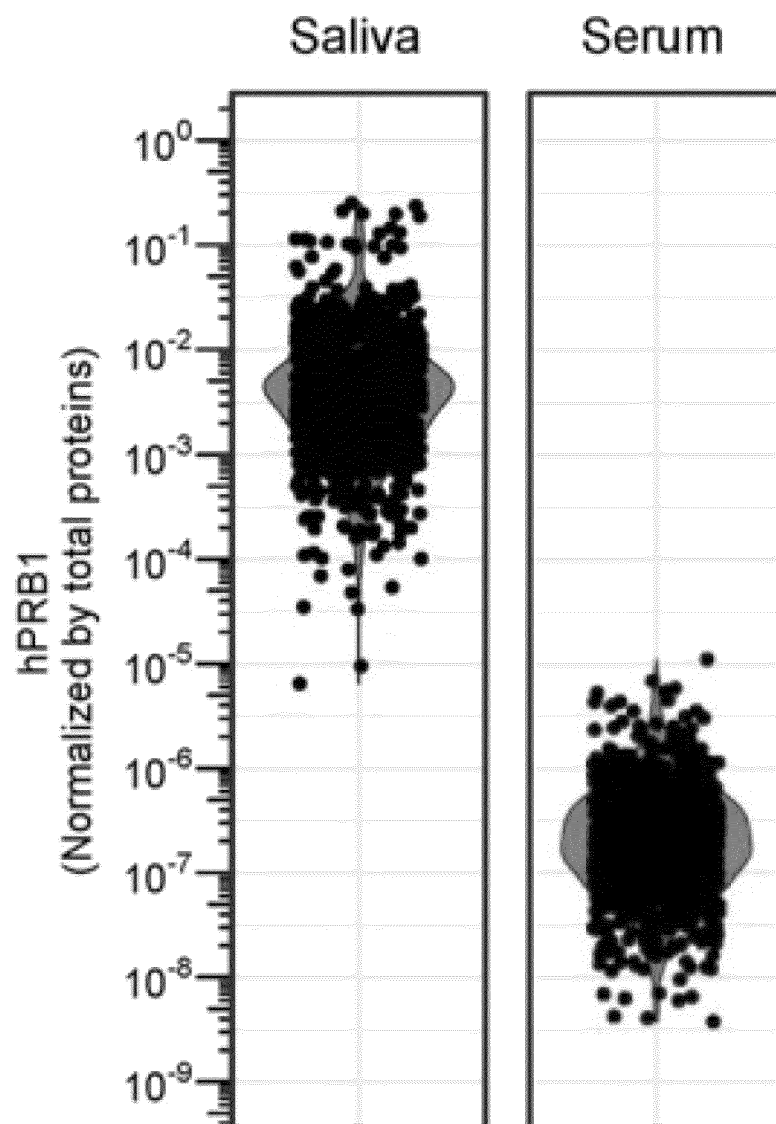


[Figure 6]

Fig. 6

| NO. | OD <sub>450</sub> | -blank | y      | ng/mL  | NO. | OD <sub>450</sub> | -blank | y      | ng/mL |
|-----|-------------------|--------|--------|--------|-----|-------------------|--------|--------|-------|
| 732 | 0.161             | 0.016  | 0.0501 | 2.51   | 758 | 0.162             | 0.017  | 0.0534 | 2.67  |
| 733 | 0.178             | 0.033  | 0.1083 | 5.42   | 759 | 0.173             | 0.028  | 0.0907 | 4.53  |
| 734 | 0.198             | 0.053  | 0.1833 | 9.17   | 760 | 0.241             | 0.096  | 0.3686 | 18.43 |
| 735 | 0.160             | 0.015  | 0.0469 | 2.34   | 761 | 0.190             | 0.045  | 0.1525 | 7.62  |
| 736 | 0.288             | 0.143  | 0.6084 | 30.42  | 762 | 0.226             | 0.081  | 0.3002 | 15.01 |
| 737 | 0.196             | 0.051  | 0.1755 | 8.78   | 763 | 0.200             | 0.055  | 0.1912 | 9.56  |
| 738 | 0.372             | 0.227  | 1.1343 | 56.71  | 764 | 0.237             | 0.092  | 0.3500 | 17.50 |
| 739 | 0.214             | 0.069  | 0.2484 | 12.42  | 765 | 0.229             | 0.084  | 0.3136 | 15.68 |
| 740 | 0.315             | 0.170  | 0.7638 | 38.19  | 766 | 0.283             | 0.138  | 0.5810 | 29.05 |
| 741 | 0.218             | 0.073  | 0.2654 | 13.27  | 767 | 0.403             | 0.258  | 1.3599 | 67.99 |
| 742 | 0.174             | 0.029  | 0.0942 | 4.71   | 768 | 0.209             | 0.064  | 0.2276 | 11.38 |
| 743 | 0.263             | 0.118  | 0.4760 | 23.80  | 769 | 0.167             | 0.022  | 0.0701 | 3.50  |
| 744 | 0.548             | 0.403  | 2.6405 | 132.03 | 770 | 0.205             | 0.060  | 0.2113 | 10.56 |
| 745 | 0.172             | 0.027  | 0.0872 | 4.36   | 771 | 0.276             | 0.131  | 0.5435 | 27.17 |
| 746 | 0.257             | 0.112  | 0.4458 | 22.29  | 772 | 0.361             | 0.216  | 1.0583 | 52.92 |
| 747 | 0.193             | 0.048  | 0.1639 | 8.20   | 773 | 0.156             | 0.011  | 0.0340 | 1.70  |
| 748 | 0.296             | 0.151  | 0.6531 | 32.66  | 774 | 0.183             | 0.038  | 0.1264 | 6.32  |
| 749 | 0.292             | 0.147  | 0.6306 | 31.53  | 775 | 0.158             | 0.013  | 0.0404 | 2.02  |
| 750 | 0.209             | 0.064  | 0.2276 | 11.38  | 776 | 0.286             | 0.141  | 0.5974 | 29.87 |
| 751 | 0.179             | 0.034  | 0.1119 | 5.60   | 777 | 0.419             | 0.274  | 1.4829 | 74.15 |
| 752 | 0.201             | 0.056  | 0.1952 | 9.76   | 778 | 0.217             | 0.072  | 0.2612 | 13.06 |
| 753 | 0.417             | 0.272  | 1.4673 | 73.37  | 779 | 0.204             | 0.059  | 0.2072 | 10.36 |
| 754 | 0.533             | 0.388  | 2.4908 | 124.54 | 780 | 0.223             | 0.078  | 0.2871 | 14.35 |
| 755 | 0.185             | 0.040  | 0.1338 | 6.69   | 781 | 0.183             | 0.038  | 0.1264 | 6.32  |
| 756 | 0.378             | 0.233  | 1.1766 | 58.83  | 782 | 0.202             | 0.057  | 0.1992 | 9.96  |
| 757 | 0.277             | 0.132  | 0.5488 | 27.44  | 783 | 0.282             | 0.137  | 0.5756 | 28.78 |

[Figure 7]  
Fig. 7



[Figure 8]  
Fig. 8

