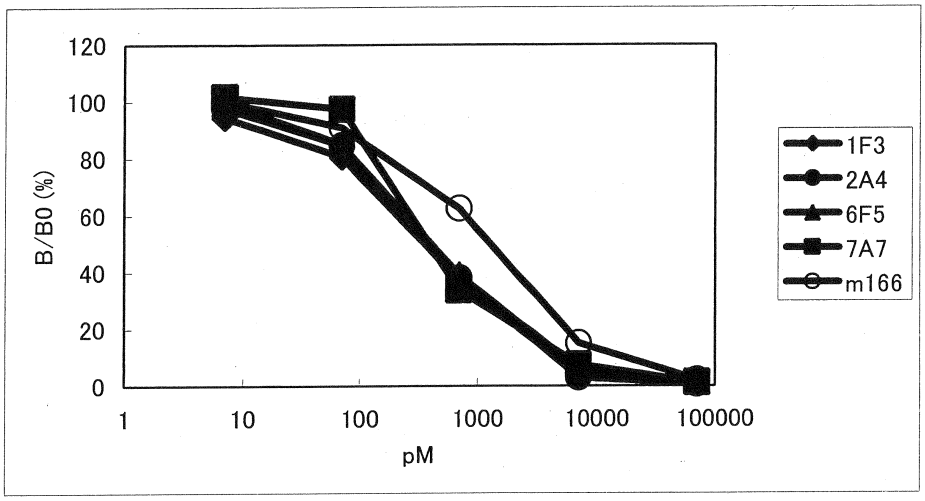
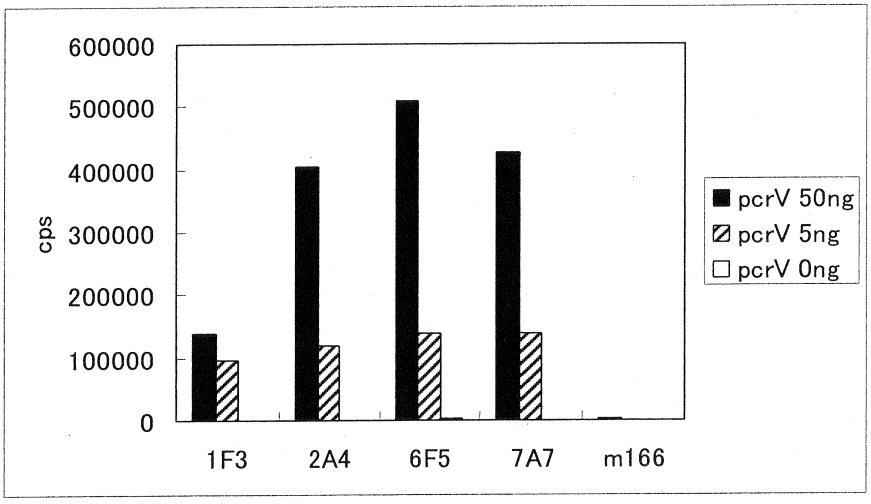
[Figure 1]



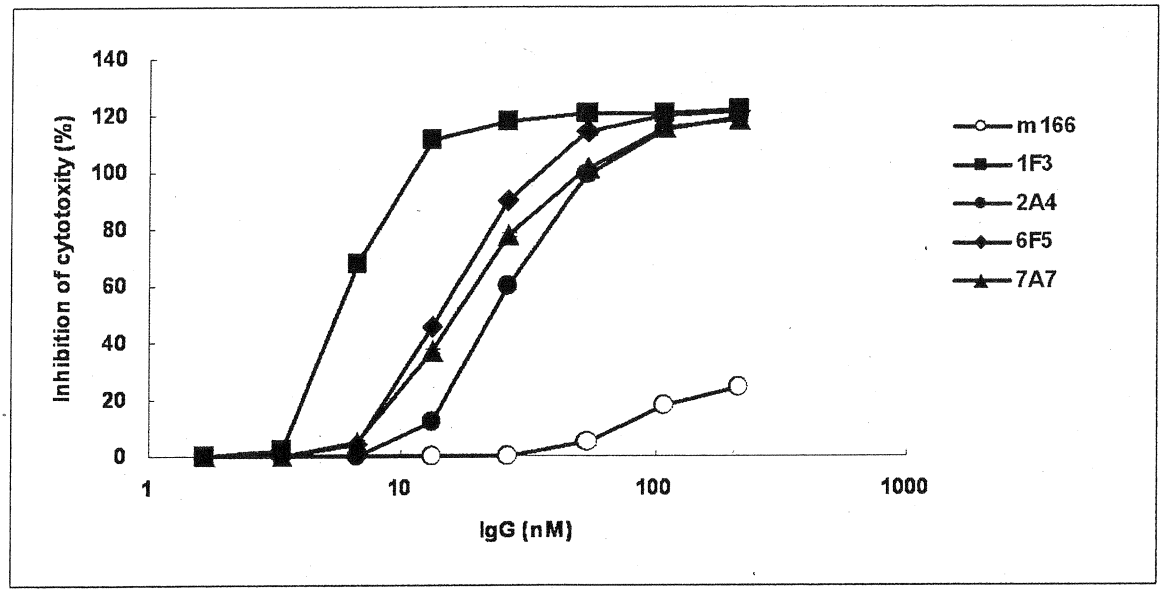
[Figure 2]

Clone	Kd (M)
m166	3.0×10^{-9}
1F3	3.7×10^{-10}
2A4	3.5×10^{-10}
6F5	1.1×10^{-10}
7A7	1.1×10^{-9}

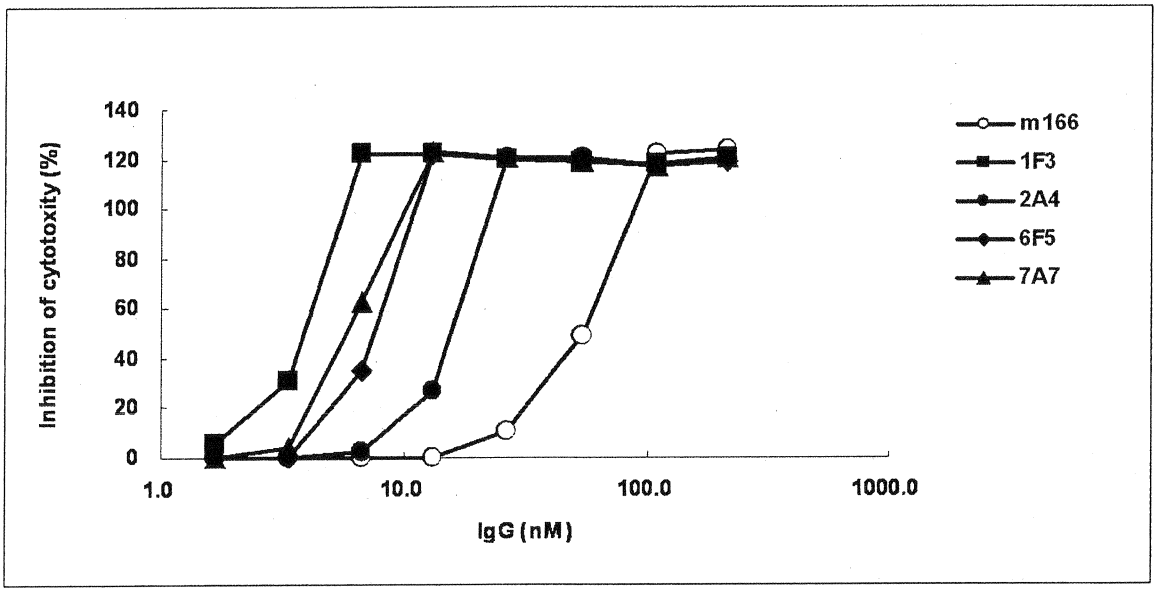
[Figure 3]



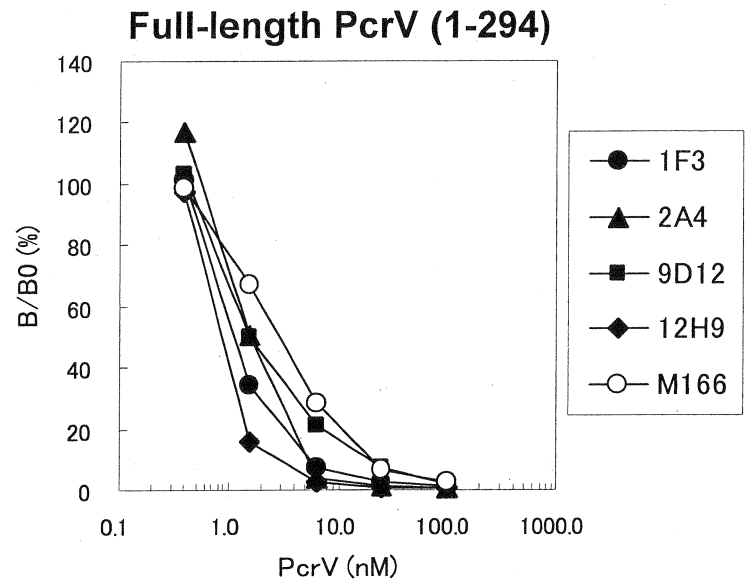
[Figure 4]

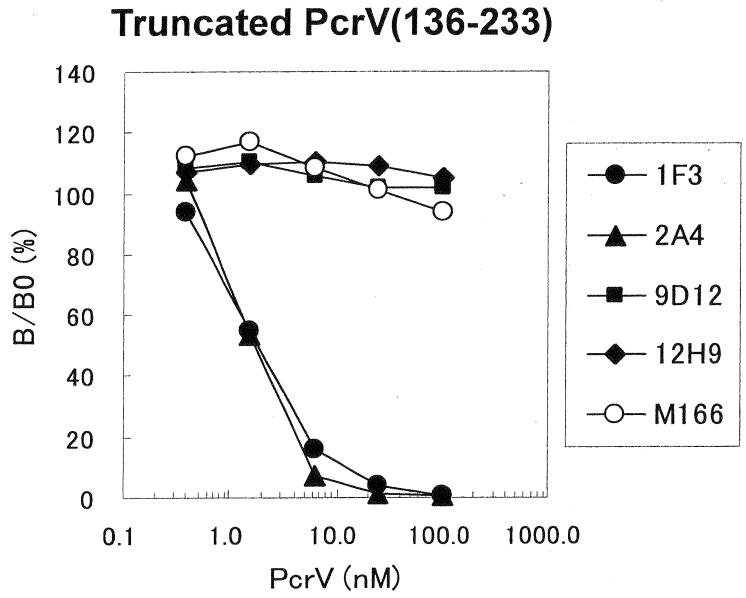


[Figure 5]

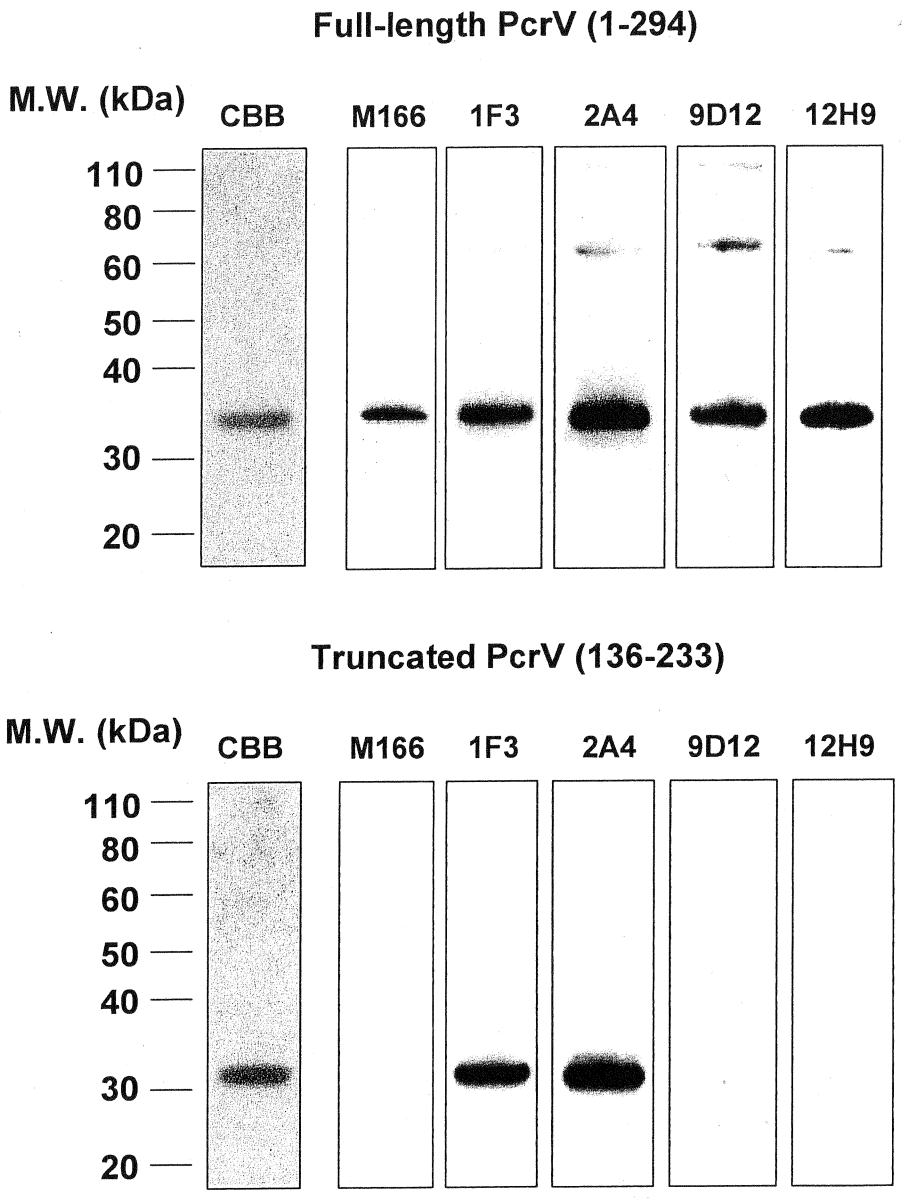


[Figure 6]


Full-length PcrV (1-294)
B/B0 (%)
140
120
100
80
60
40
20
0
0.1
1.0
10.0
100.0
1000.0
PcrV (nM)
1F3
2A4
9D12
12H9
M166

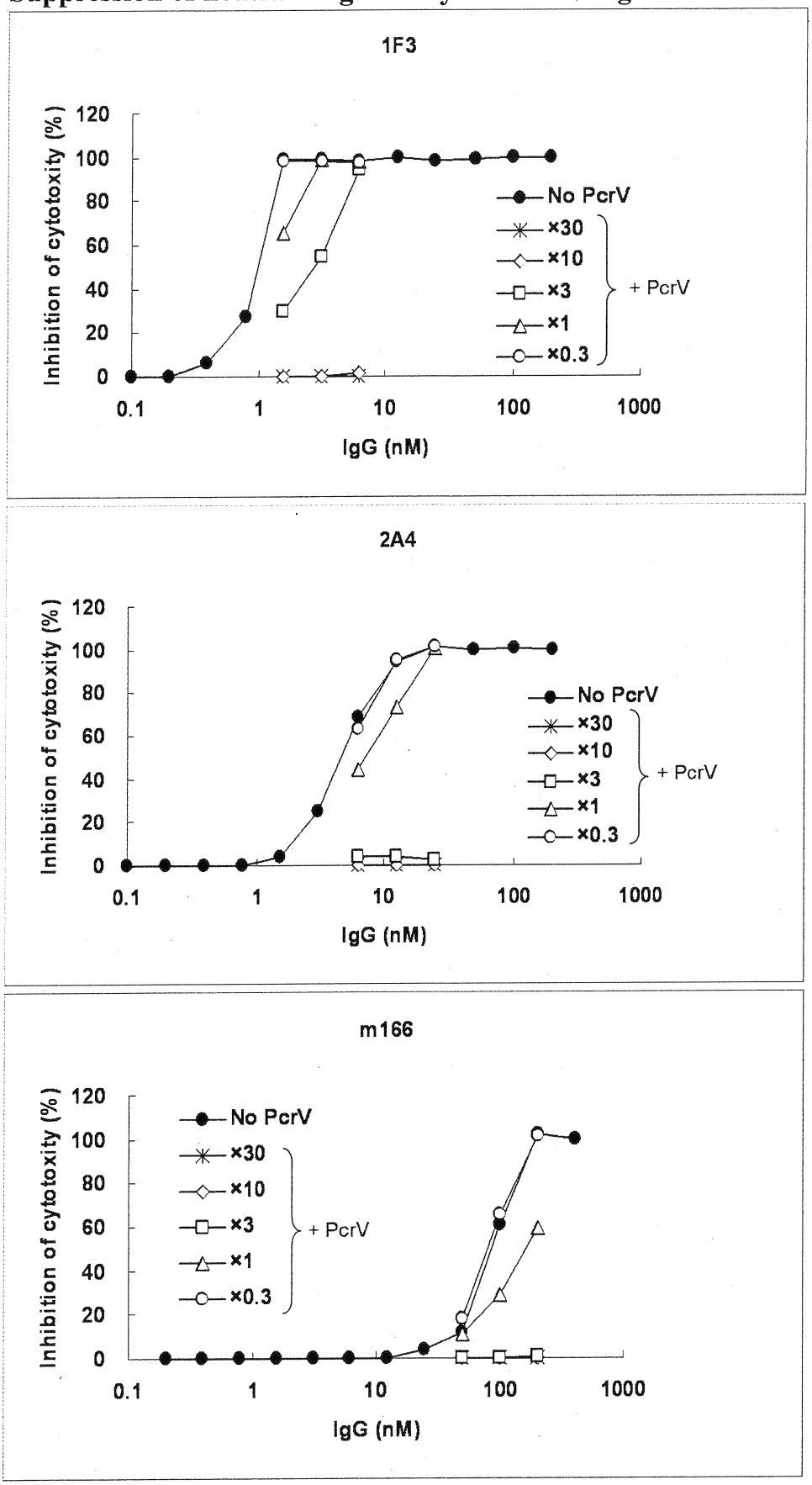

Truncated PcrV(136-233)
B/B0 (%)
140
120
100
80
60
40
20
0
0.1
1.0
10.0
100.0
1000.0
PcrV (nM)
1F3
2A4
9D12
12H9
M166

[Figure 7]


Full-length PcrV (1-294)
M.W. (kDa)
CBB
M166
1F3
2A4
9D12
12H9
110
80
60
50
40
30
20
Truncated PcrV (136-233)
M.W. (kDa)
CBB
M166
1F3
2A4
9D12
12H9
110
80
60
50
40
30
20

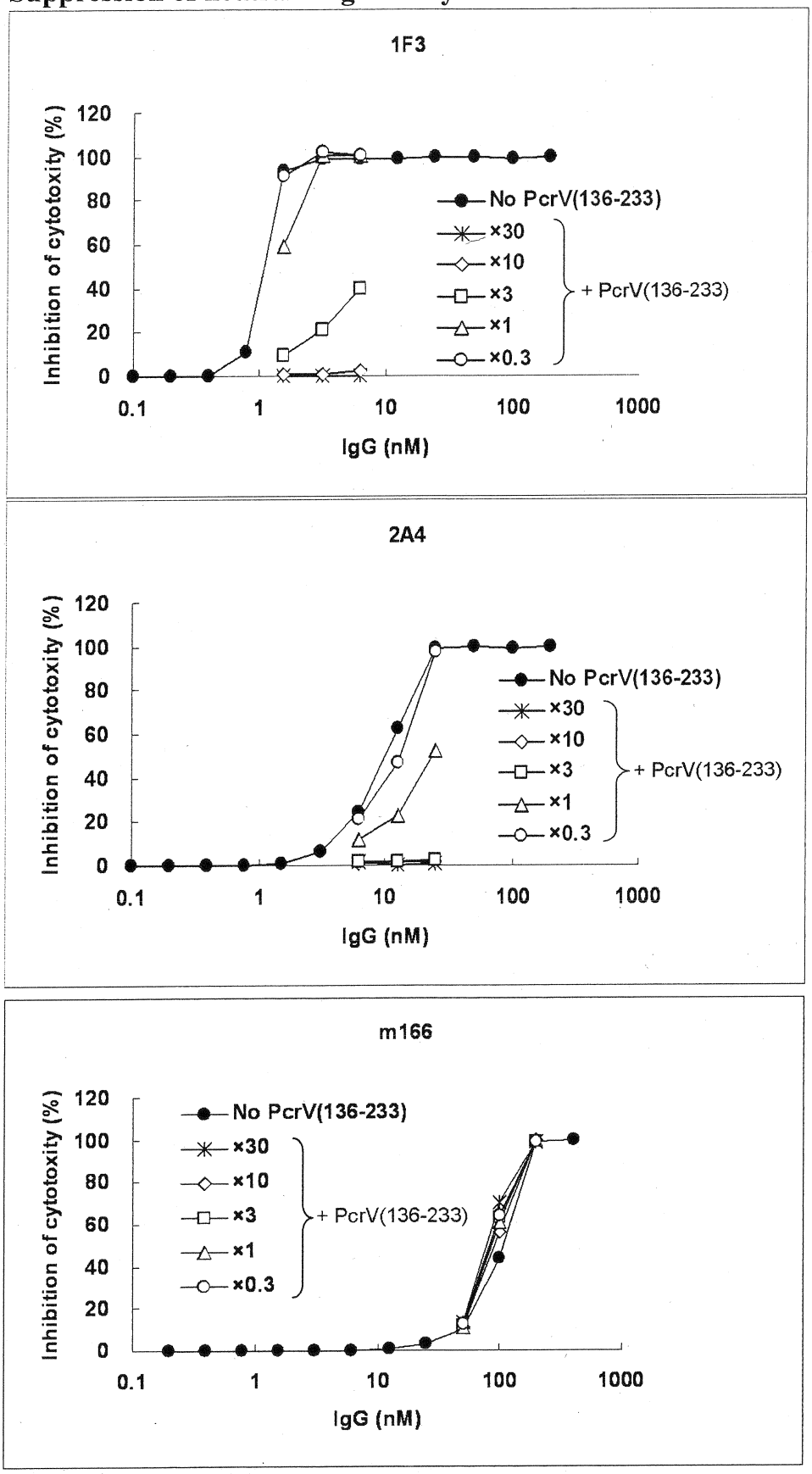
[Figure 8]

Suppression of neutralizing activity with full-length PcrV



[Figure 9]

Suppression of neutralizing activity with truncated PcrV



[Figure 10]

(SEQ ID NO: 11, 12)

Heavy Chain

QVQLQQPGAELVKPGASVKLSCKASGYSFTSYWMHWVKQRPGQGLEWIGEINPSN
GRTNYNEKFNTKATLTVDTSSSTAYMQLSSLTSEDSAVYYCVLYGNYVVYYTMDYW
GQGTSVTVSS

Light Chain

QIVLTQSPTIMSASLGEEITLTCSASTSVSYMEWYQQKSGTSPKILIYTTSKLASGVPS
RFSGSGSGTFYSLTISSVEAEDAADYYCHQWRNYPFTFGSGTKLEIKRAD

[Figure 11]
(SEQ ID NO: 13, 14)

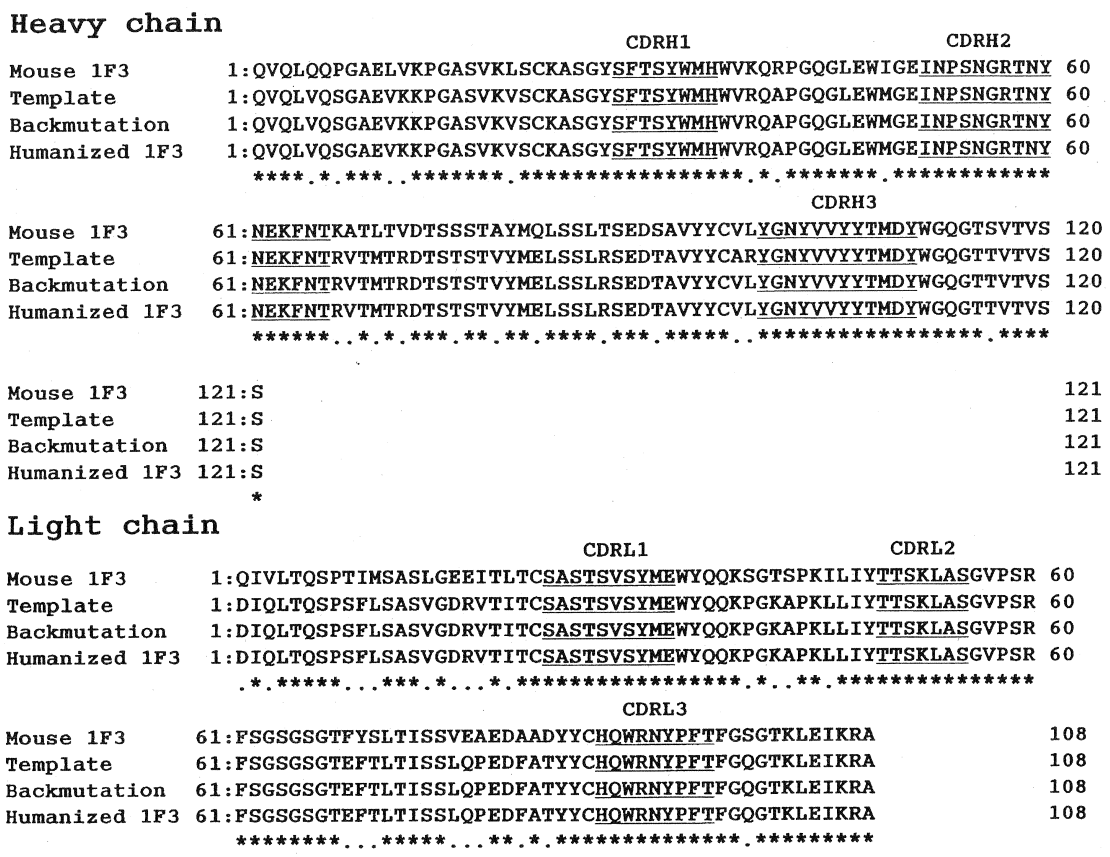
Heavy Chain

DVQLQESGPGLVKPSQSLSLTCTVTGYSITSDYAWNWIRQFPGNKLEWMGYITYNG
DTSYNPSLKSRISIARDTSKNQFFLQLNSVTTEDTATYSCAGSRNYYGAWFAYWGQG
TLVTVSA

Light Chain

DIVMTQSHKFMSTSIGDRVSINYKASQYVGTTVAWYQQKSGHSPKLLIYRASTRHTG
VPDRFTGSGSGTDFTLNISNVQSEDLADYFCQQYCSSPLTFGAGTYLEVKRAD

[Figure 12]



[Figure 13]

Heavy Chain	Light Chain	ka(1/Ms)	kd(1/s)	KD(M)
H chimera	L chimera	2.0×10^{6}	5.1×10^{-4}	2.6×10^{-10}
HT	LT	1.1×10^{5}	2.5×10^{-2}	2.2×10^{-7}
HT	LB	6.2×10^{4}	4.0×10^{-2}	6.5×10^{-7}
HB	LT	1.4×10^{6}	4.8×10^{-4}	3.3×10^{-10}
HB	LB	1.3×10^{6}	4.2×10^{-4}	3.4×10^{-10}

[Figure 14]

Heavy Chain	Light Chain	ka(1/Ms)	kd(1/s)	KD(M)
H chimera	L chimera	8.5×10^{5}	2.3×10^{-4}	2.7×10^{-10}
HB	LT	5.4×10^{5}	1.8×10^{-4}	3.4×10^{-10}
I48M	LT	8.5×10^{5}	1.2×10^{-4}	1.5×10^{-10}
A67V	LT	7.5×10^{5}	1.6×10^{-4}	2.1×10^{-10}
L69M	LT	6.8×10^{5}	1.7×10^{-4}	2.5×10^{-10}
V71R	LT	7.2×10^{5}	1.6×10^{-4}	2.2×10^{-10}
A78V	LT	1.9×10^{6}	4.6×10^{-5}	2.4×10^{-11}
V93A	LT	2.0×10^{6}	5.1×10^{-4}	2.6×10^{-10}
L94R	LT	6.2×10^{4}	4.0×10^{-2}	6.5×10^{-7}

[Figure 15]

SEQ ID NO: 27

QVQLVQSGAEVKKPGASVKVSCKASGYSFTSYWMHWVRQAPGQGLEWMGEINPS
NGRTNYNEKFNTRVTMTRDTSTSTVYMELSSLRSEDTAVYYCVLYGNYVVYYTMDY
WGQGT

[Figure 16]

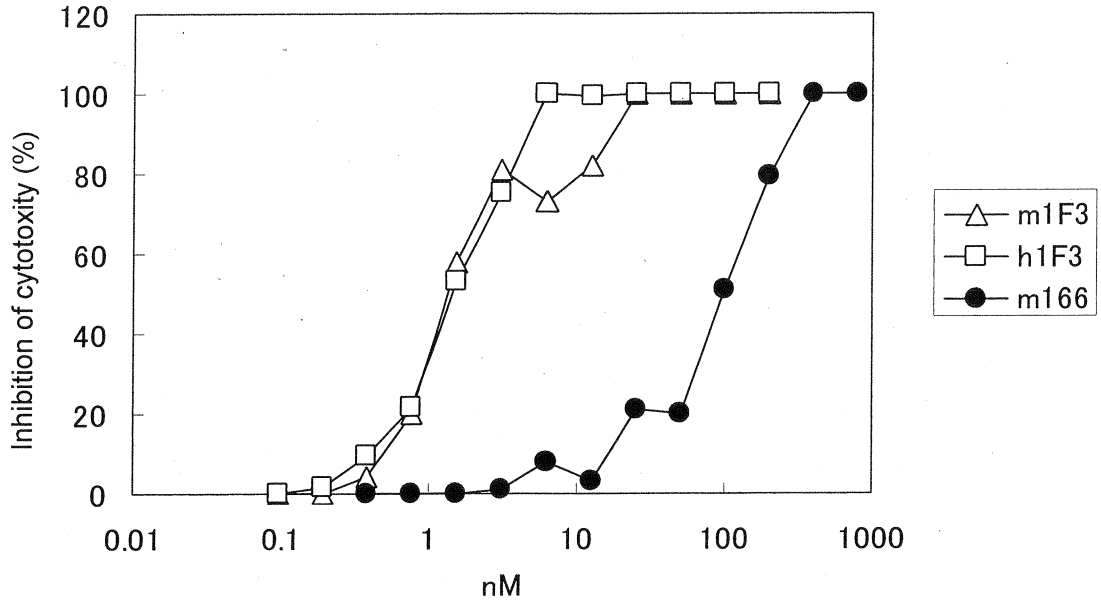
SEQ ID NO: 28

DIQLTQSPSFLSASVGDRVTITCSASTSVSYMEWYQQKPGKAPKLLIYTTSKLASGVP
SRFSGSGSGTEFTLTISSLQPEDFATYYCHQWRNYPFTFGQGTKLEIKRA

[Figure 17]

Heavy Chain	Light Chain	ka(1/Ms)	kd(1/s)	KD(M)
H chimera	L chimera	7.4×10^{5}	3.7×10^{-4}	4.9×10^{-10}
h1F3 H	h1F3 L	8.7×10^{5}	3.3×10^{-4}	3.8×10^{-10}

[Figure 18]



[Figure 19]

