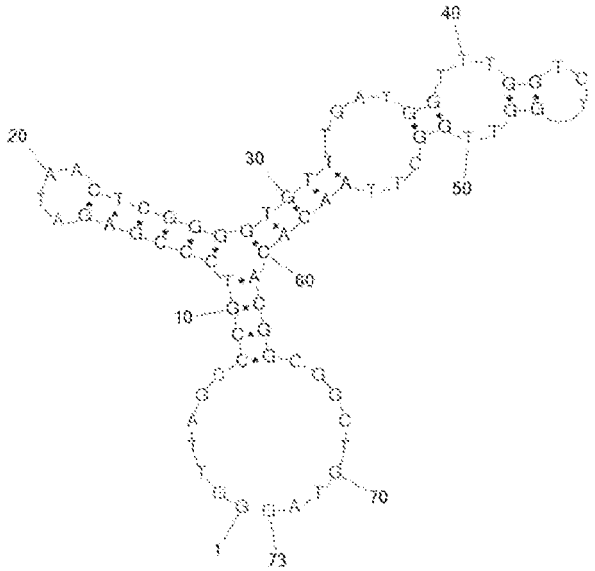
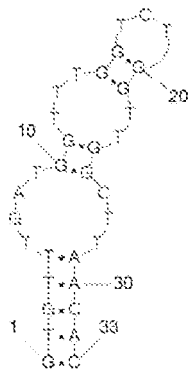
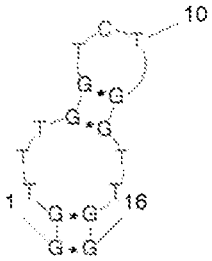
[図1]



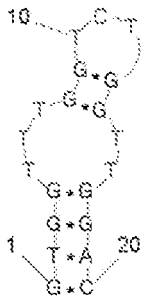
RHA0002
（配列番号１２）



RHA0002__s33
（配列番号１７）



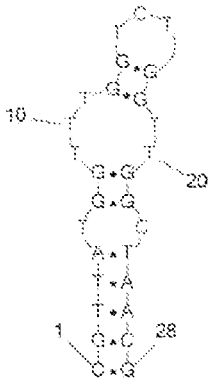
RHA0002__s16
（配列番号１３）



RHA0002__s20
（配列番号１４）

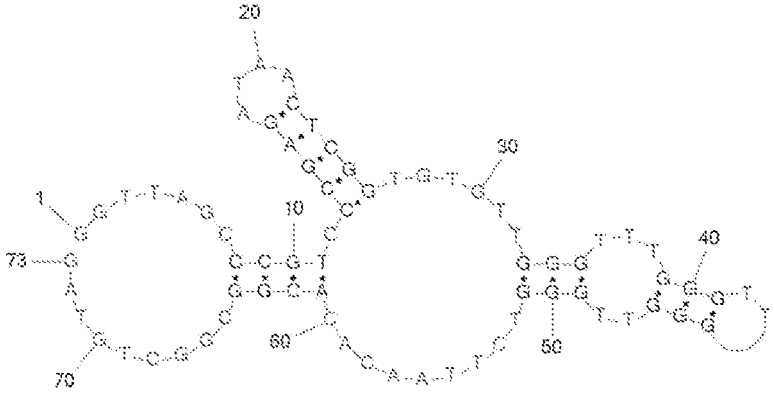


RHA0002__s26
（配列番号１５）

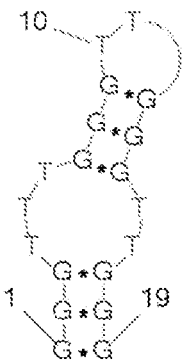


RHA0002__s28
（配列番号１６）

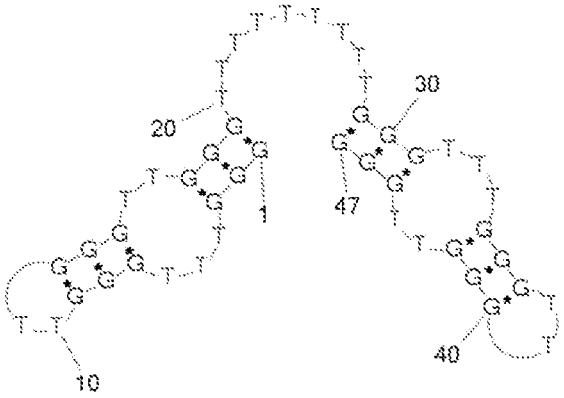
[図2]



RHA0006
（配列番号１８）

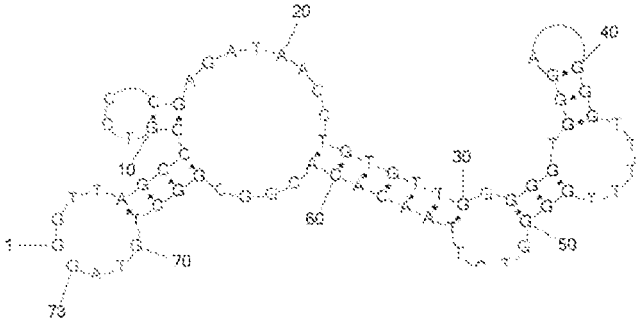


RHA0006__s19
（配列番号１９）

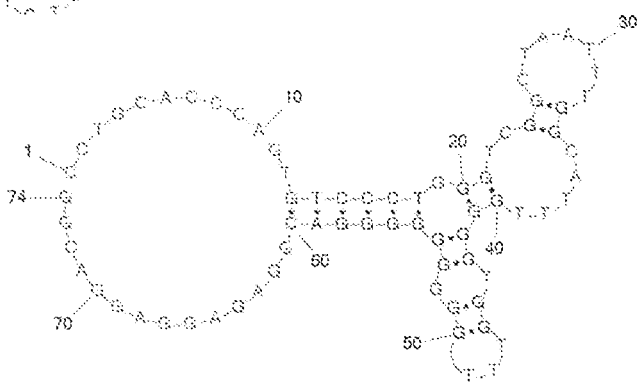


RHA0006__s19__d9
（配列番号３２）

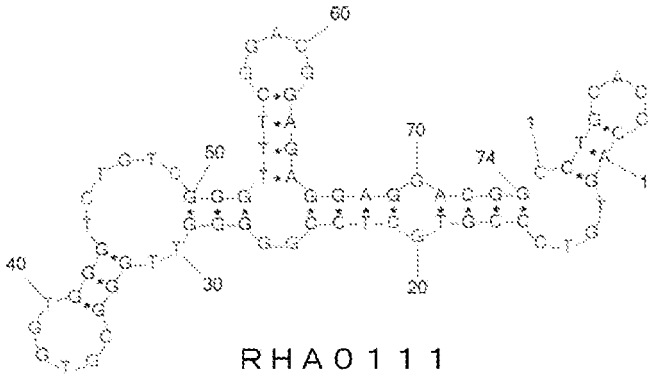
[図3]



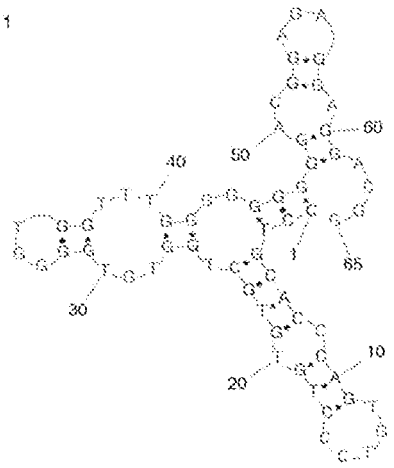
RHA0020
（配列番号１１）



RHA0127
（配列番号２９）

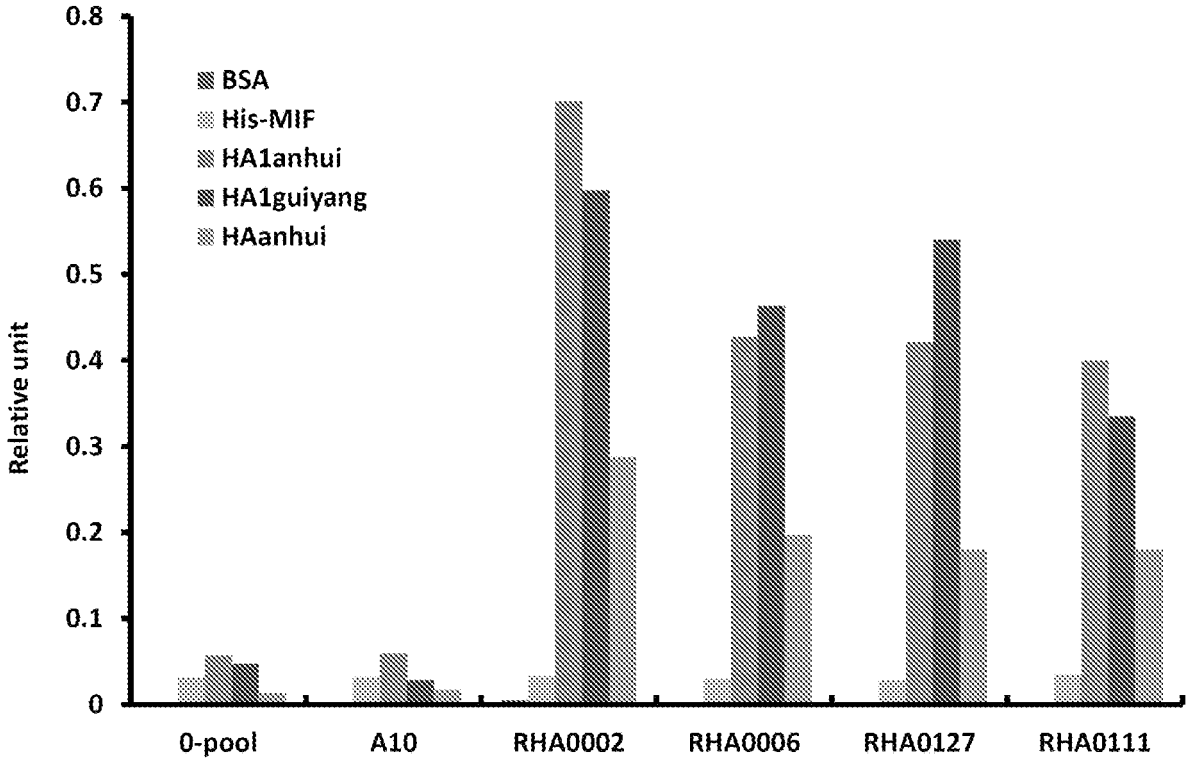


RHA0111
（配列番号２８）

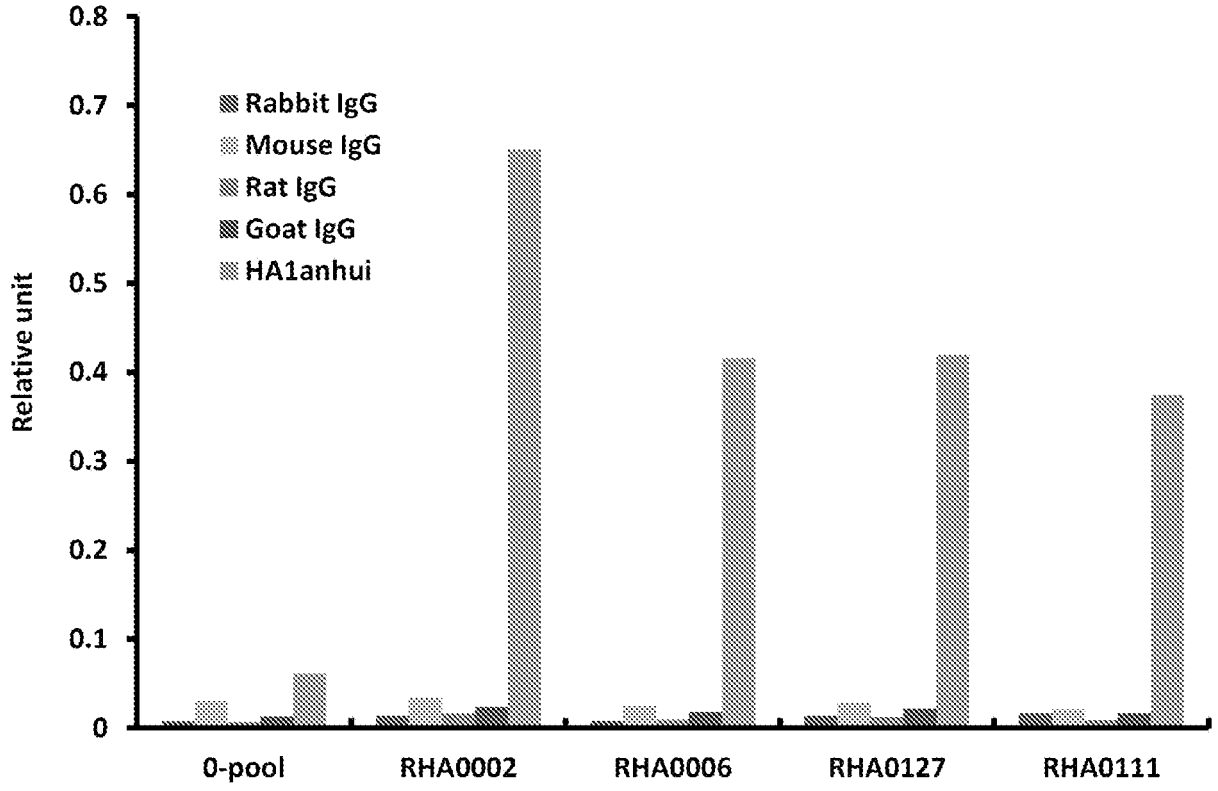


RHA0124
（配列番号３０）

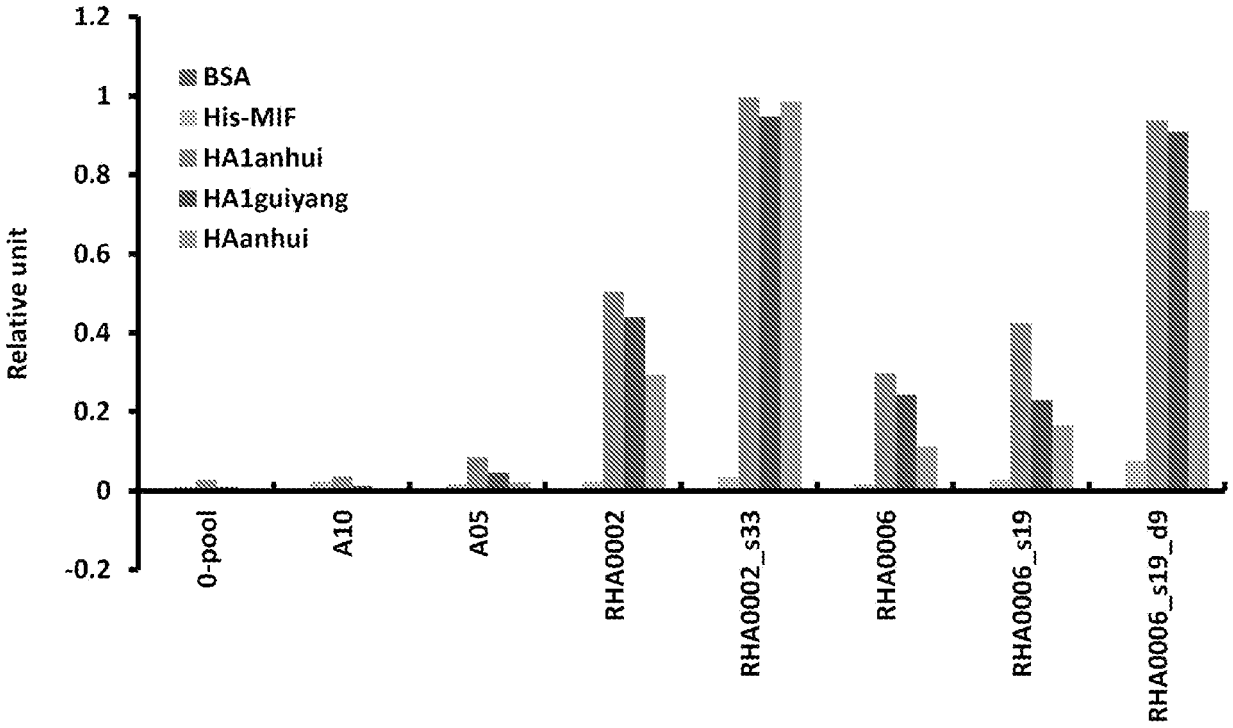
[図4]


0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Relative unit
BSA
His-MIF
HA1anhui
HA1guiyang
HAanhui
0-pool
A10
RHA0002
RHA0006
RHA0127
RHA0111

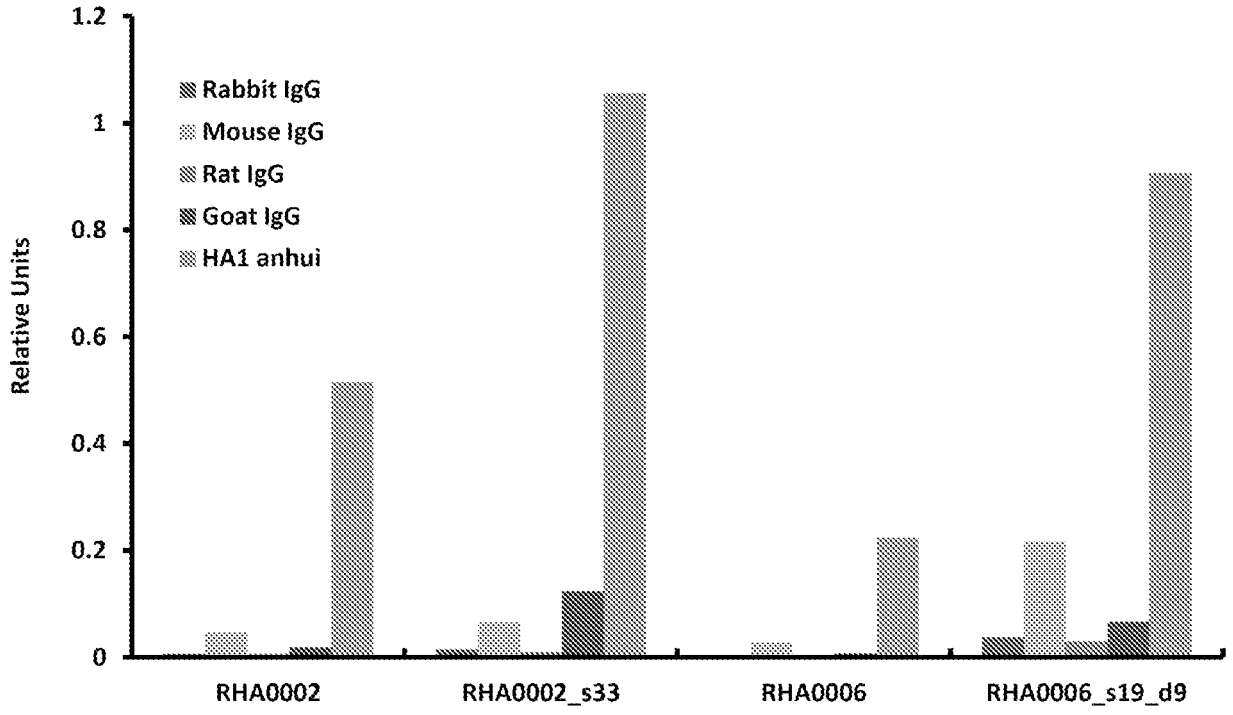
[図5]


0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Relative unit
Rabbit IgG
Mouse IgG
Rat IgG
Goat IgG
HA1anhui
0-pool
RHA0002
RHA0006
RHA0127
RHA0111

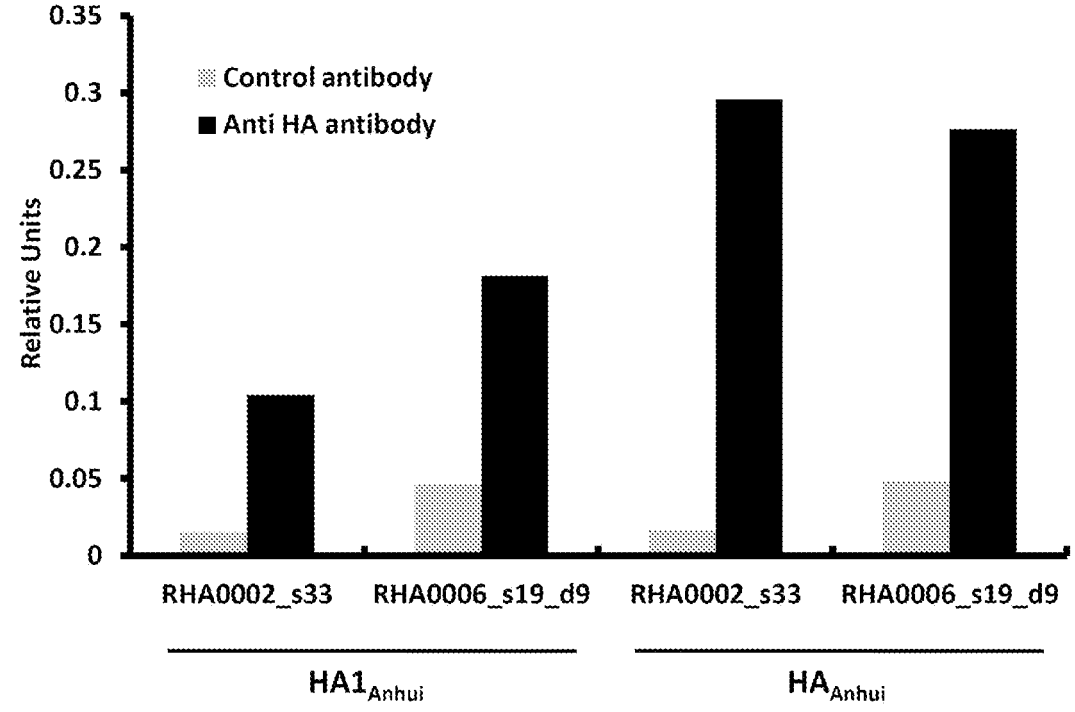
[図6]


1.2
1
0.8
0.6
0.4
0.2
0
-0.2
Relative unit
BSA
His-MIF
HA1anhui
HA1guiyang
HAanhui
0-pool
A10
A05
RHA0002
RHA0002_s33
RHA0006
RHA0006_s19
RHA0006_s19_d9

[図7]

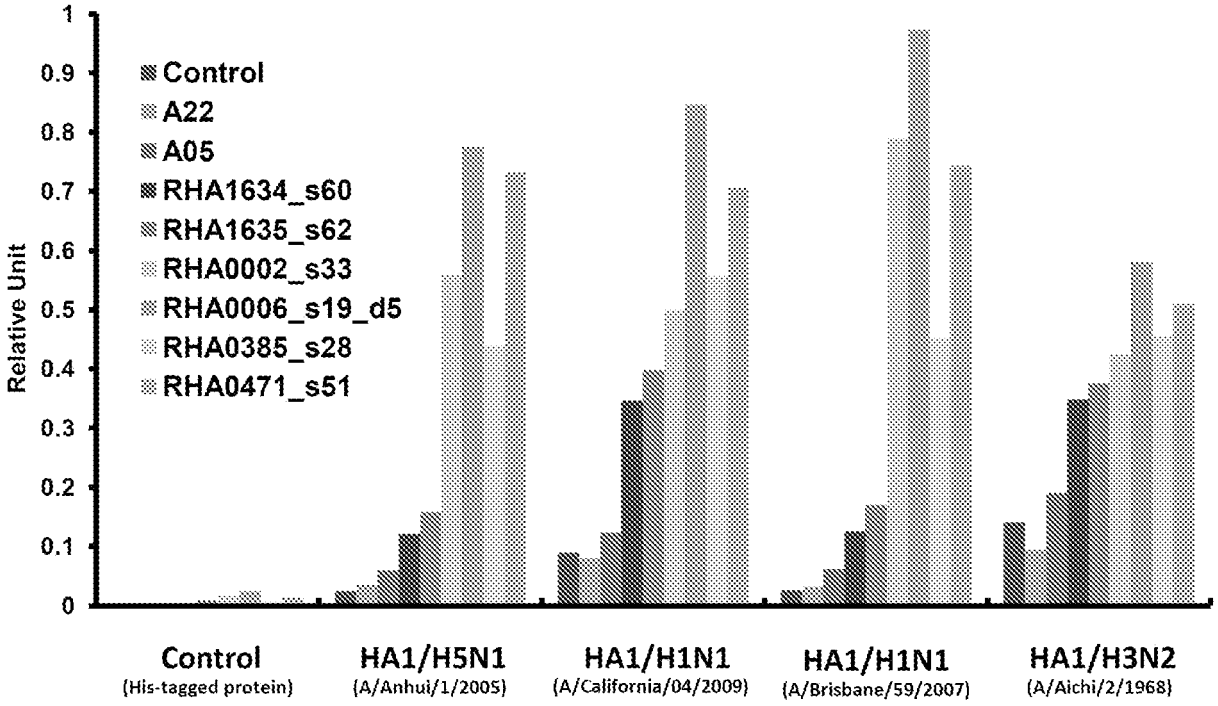

1.2
1
0.8
0.6
0.4
0.2
0
Relative Units
Rabbit IgG
Mouse IgG
Rat IgG
Goat IgG
HA1 anhui
RHA0002
RHA0002_s33
RHA0006
RHA0006_s19_d9

[図8]

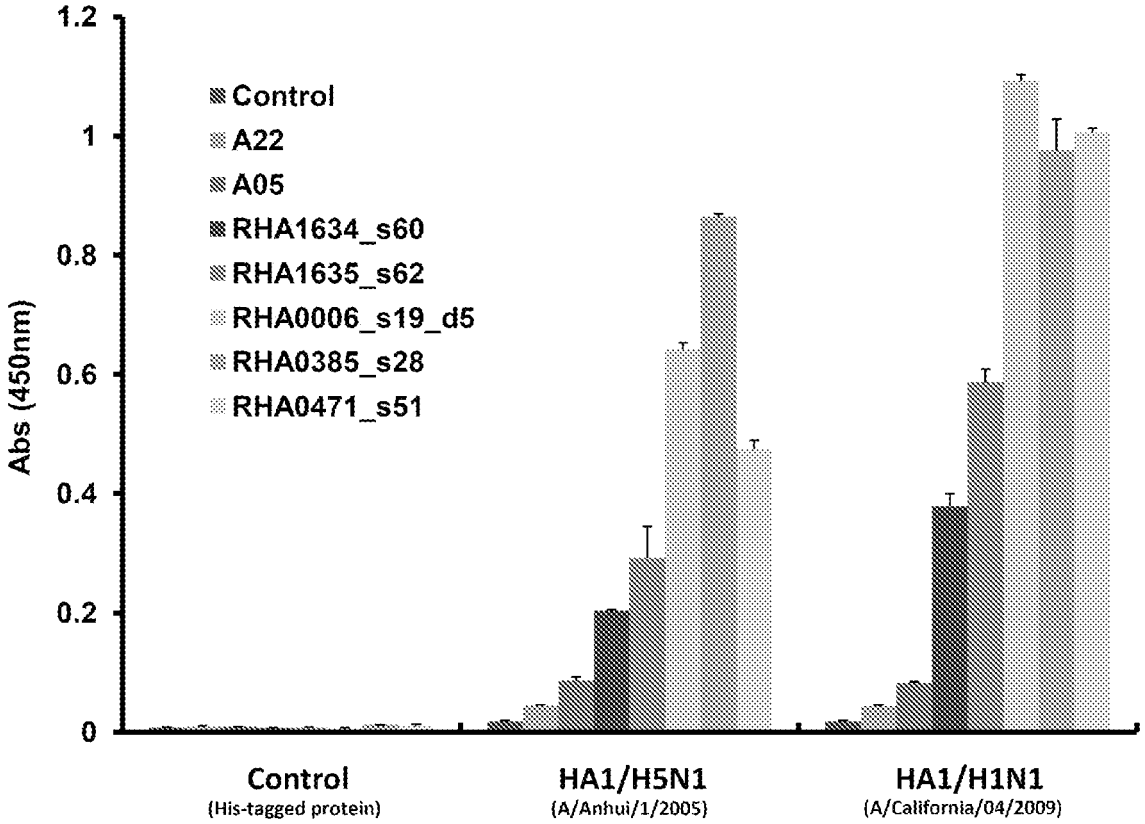


（ステップ１）捕捉用アプタマー→（ステップ２）標的HAタンパク→（ステップ３）検出抗体

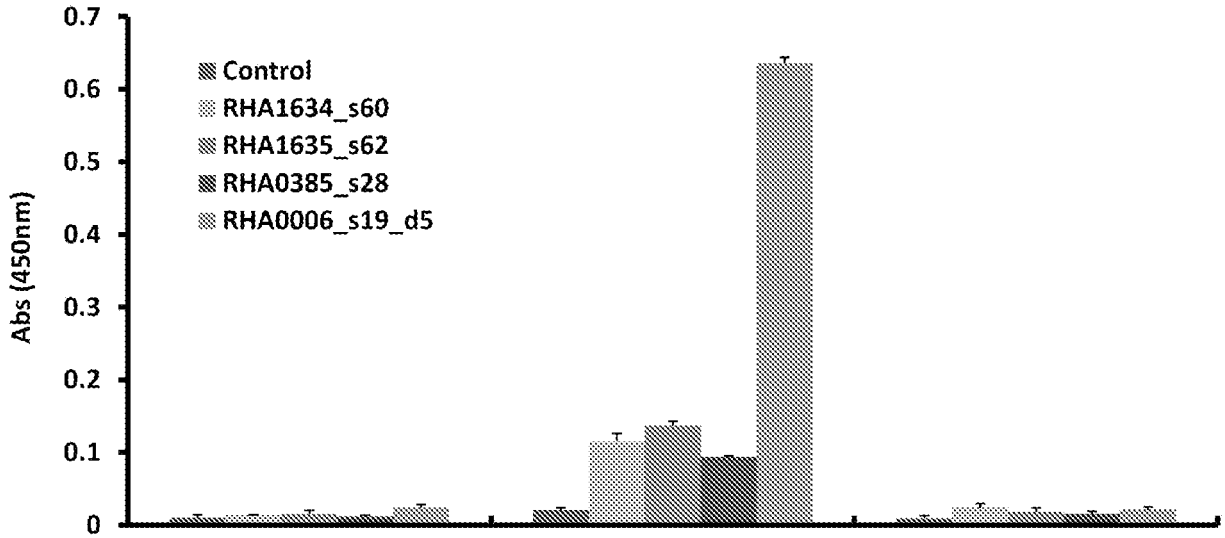
[図9]



[図10]

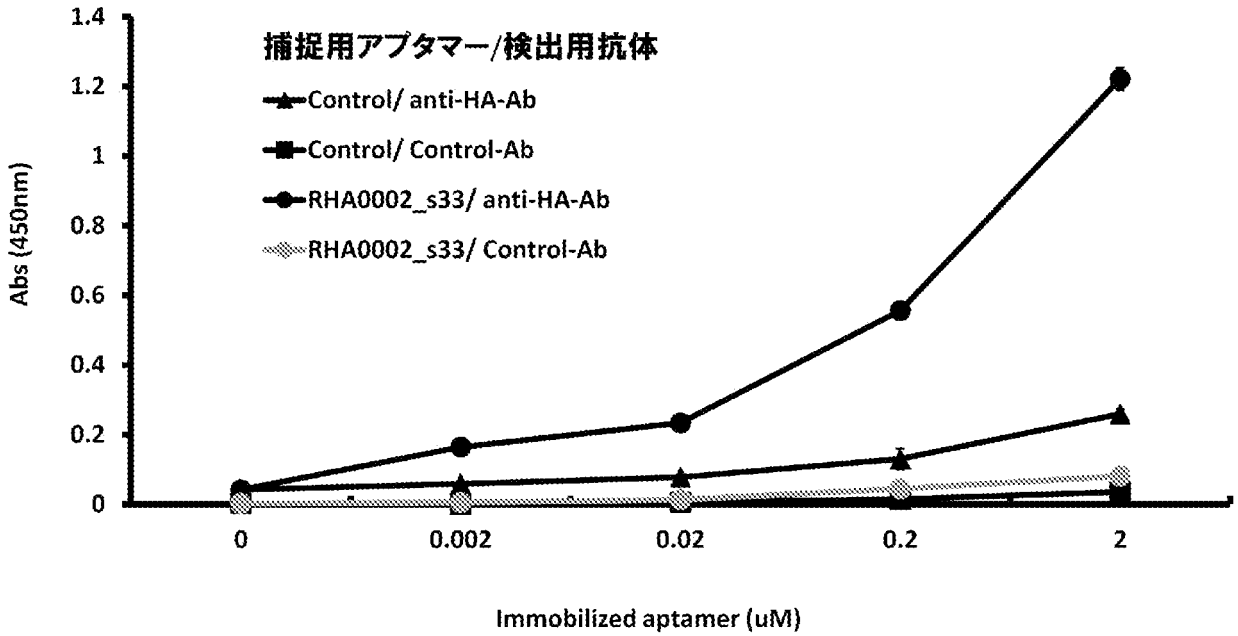


[図11]

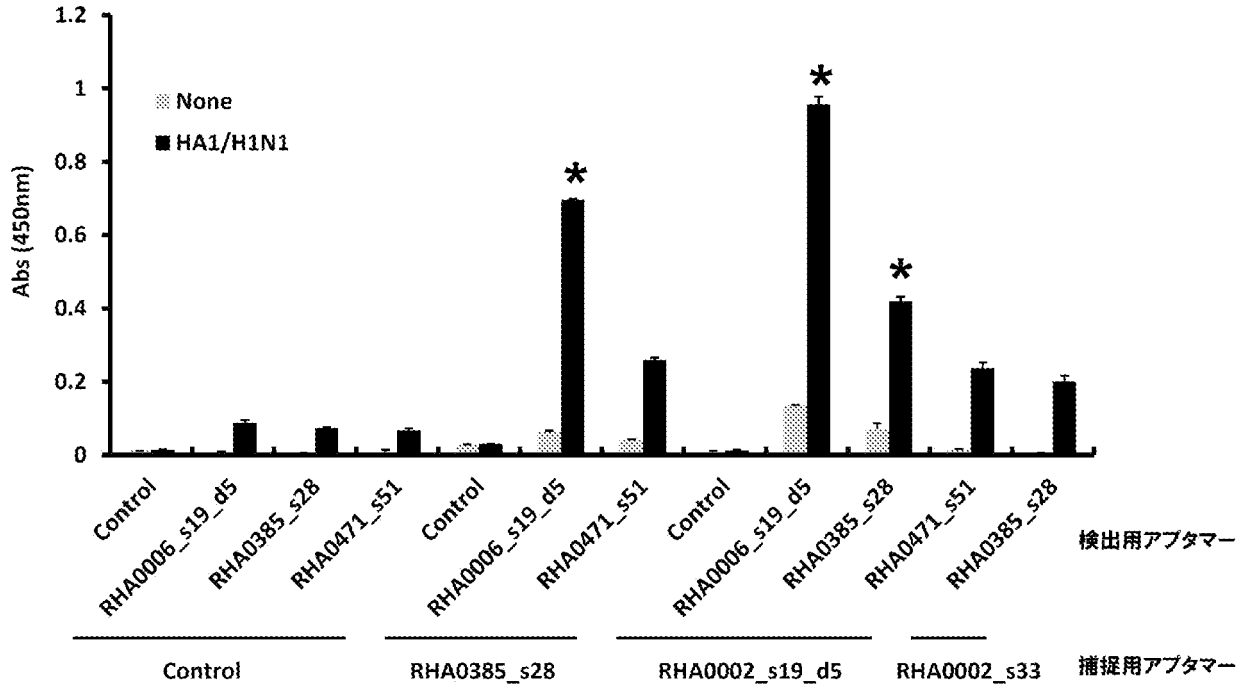


捕捉抗体	Anti-HA antibody	Anti-HA antibody	(-)
標的タンパク	(-)	HA proteins	HA proteins
検出用アプタマー	(+)	(+)	(+)

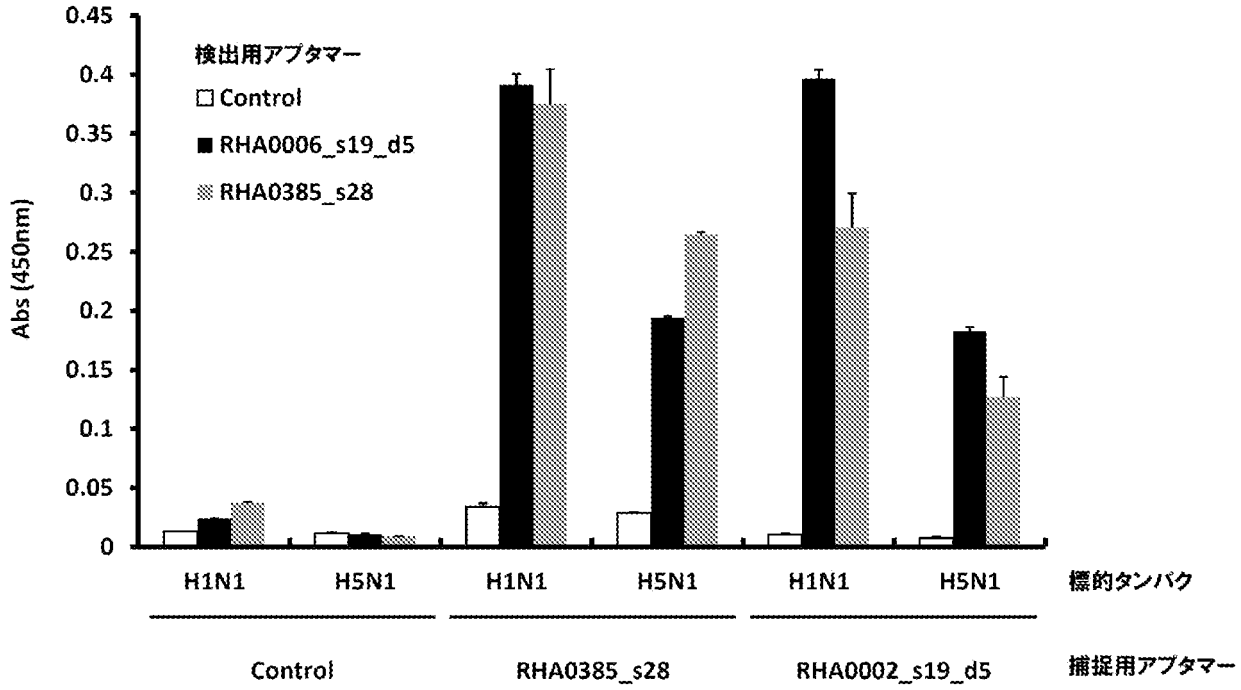
[図12]


捕捉用アプタマー/検出用抗体
Control/ anti-HA-Ab
Control/ Control-Ab
RHA0002_s33/ anti-HA-Ab
RHA0002_s33/ Control-Ab
Abs (450nm)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
0.002
0.02
0.2
2
Immobilized aptamer (uM)

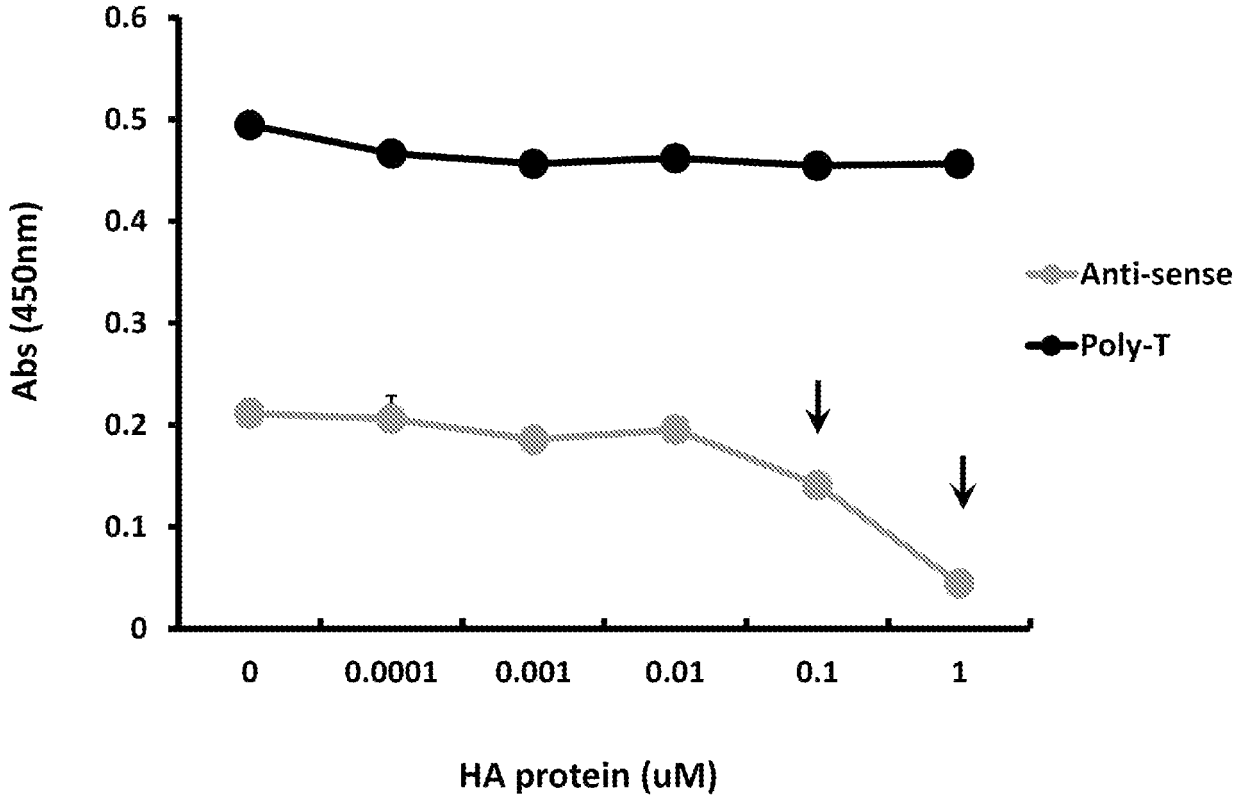
[図13]


None
HA1/H1N1
Abs (450nm)
1.2
1
0.8
0.6
0.4
0.2
0
*
*
*
Control
RHA0006_s19_d5
RHA0385_s28
RHA0471_s51
Control
RHA0006_s19_d5
RHA0471_s51
Control
RHA0006_s19_d5
RHA0385_s28
RHA0471_s51
RHA0385_s28
検出用アプタマー
Control
RHA0385_s28
RHA0002_s19_d5
RHA0002_s33
捕捉用アプタマー

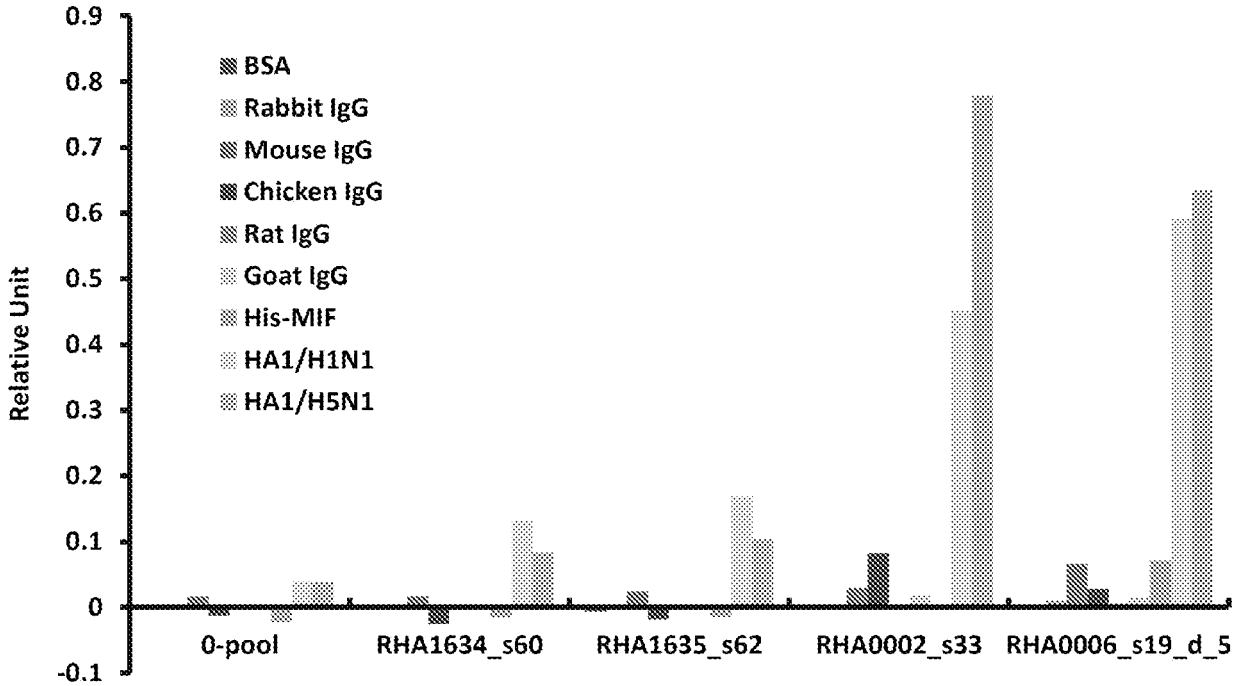
[図14]


検出用アプタマー
Control
RHA0006_s19_d5
RHA0385_s28
Abs (450nm)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
H1N1
H5N1
H1N1
H5N1
H1N1
H5N1
標的タンパク
Control
RHA0385_s28
RHA0002_s19_d5
捕捉用アプタマー

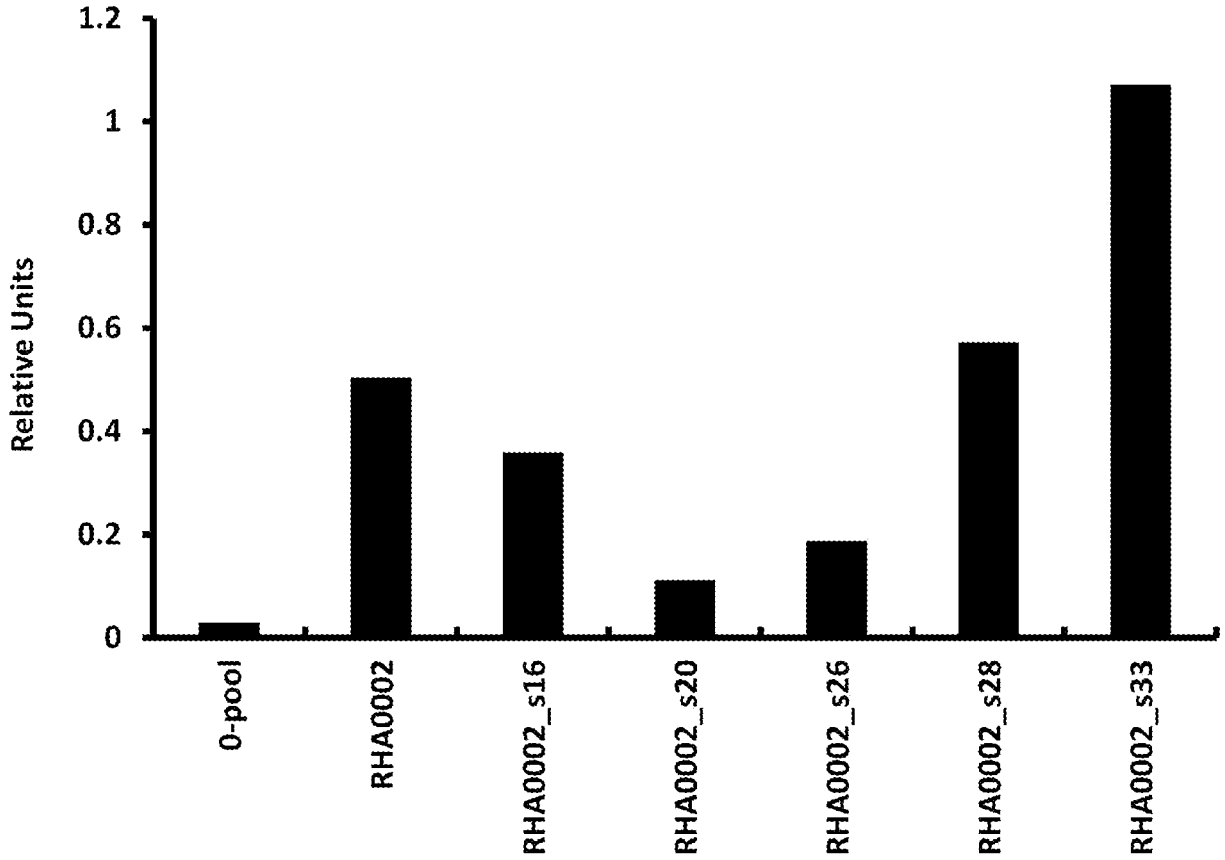
[図15]


Abs (450nm)
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.0001
0.001
0.01
0.1
1
HA protein (uM)
Anti-sense
Poly-T

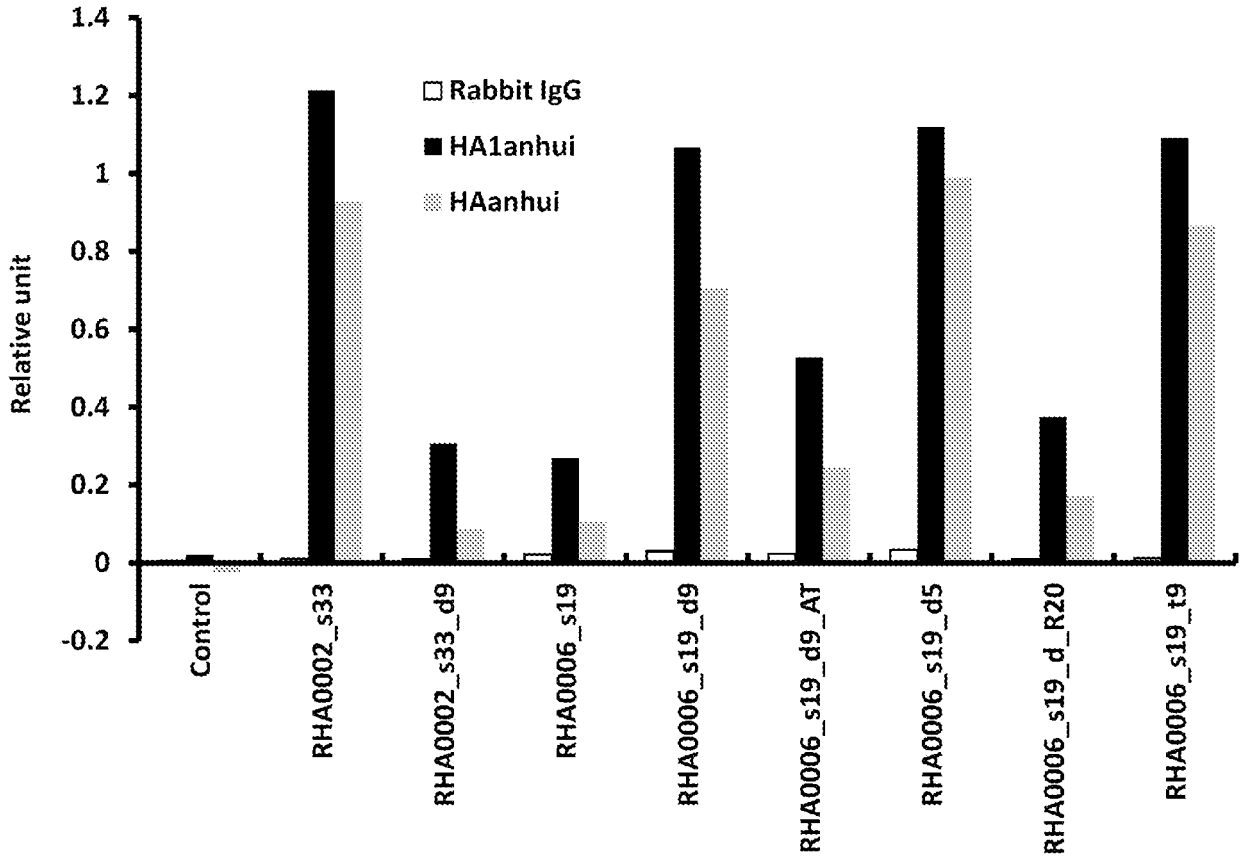
[図16]


0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
Relative Unit
BSA
Rabbit IgG
Mouse IgG
Chicken IgG
Rat IgG
Goat IgG
His-MIF
HA1/H1N1
HA1/H5N1
0-pool
RHA1634_s60
RHA1635_s62
RHA0002_s33
RHA0006_s19_d_5

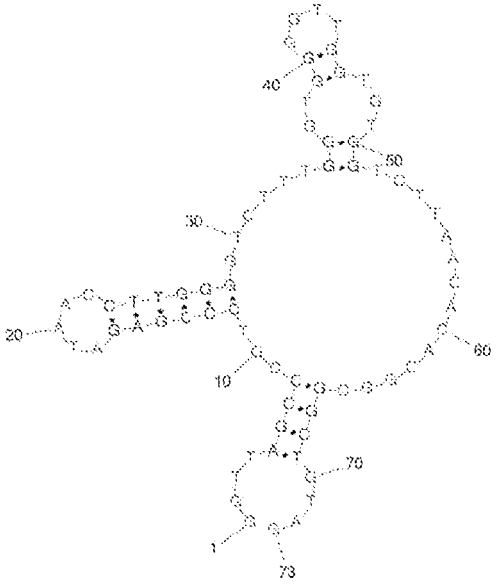
[図17]


1.2
1
0.8
0.6
0.4
0.2
0
Relative Units
0-pool
RHA0002
RHA0002_s16
RHA0002_s20
RHA0002_s26
RHA0002_s28
RHA0002_s33

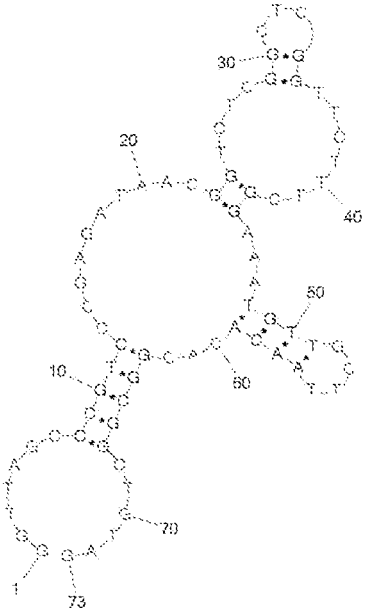
[図18]


1.4
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
Relative unit
Rabbit IgG
HA1anhui
HAanhui
Control
RHA0002_s33
RHA0002_s33_d9
RHA0006_s19
RHA0006_s19_d9
RHA0006_s19_d9_AT
RHA0006_s19_d5
RHA0006_s19_d_R20
RHA0006_s19_t9

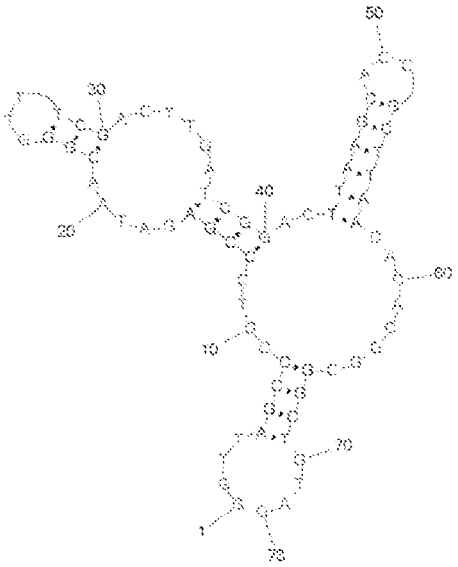
[図19]



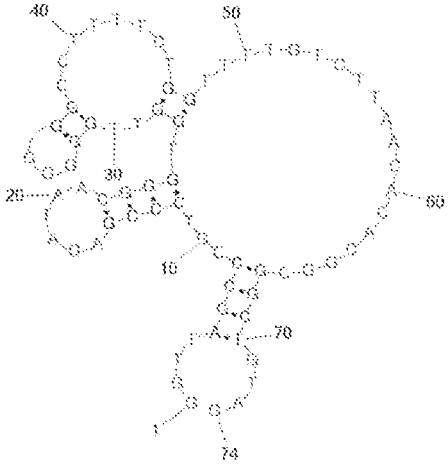
RHA0023
（配列番号１）



RHA0030
（配列番号２）

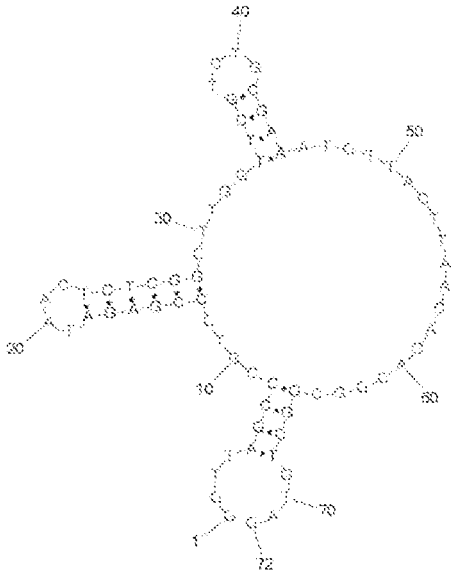


RHA0013
（配列番号３）

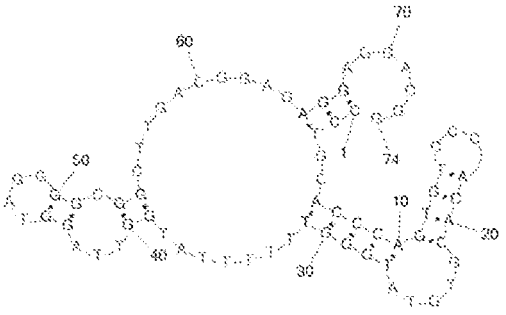


RHA0009
（配列番号４）

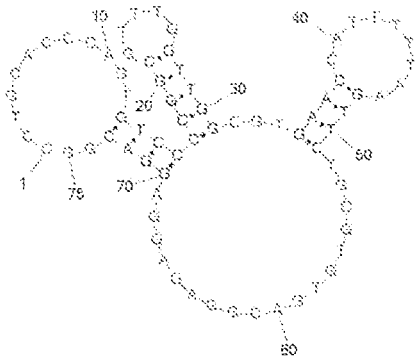
[図20]



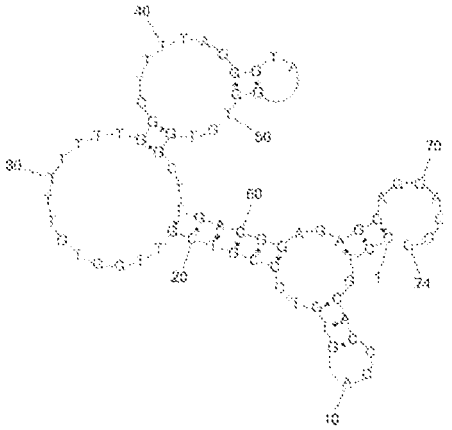
RHA0058
（配列番号５）



RHA0099
（配列番号６）

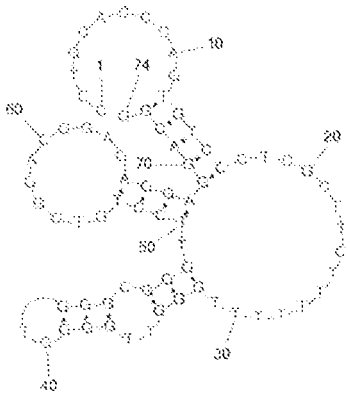


RHA0110
（配列番号７）

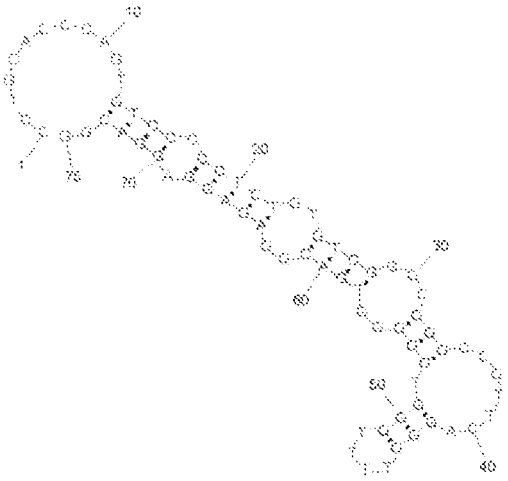


RHA0098
（配列番号８）

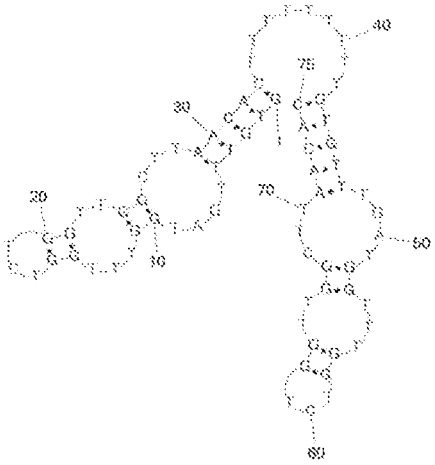
[図21]



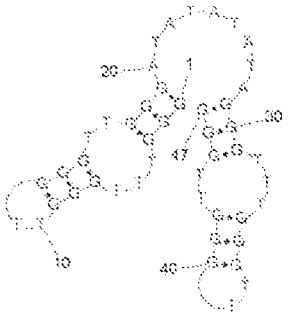
RHA0144
（配列番号９）



RHA0133
（配列番号１０）

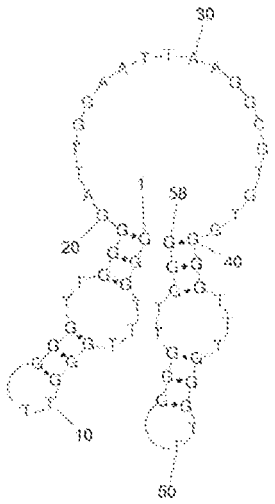


RHA0002_s33_d9
（配列番号４８）

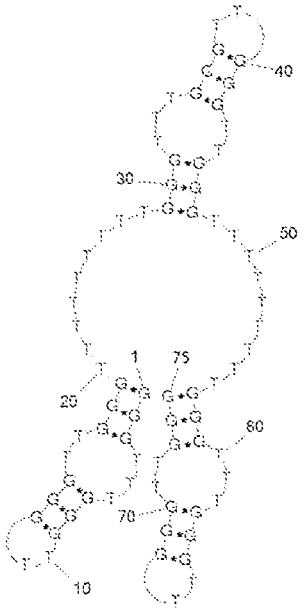


RHA0006_s19_d9_AT
（配列番号４６）

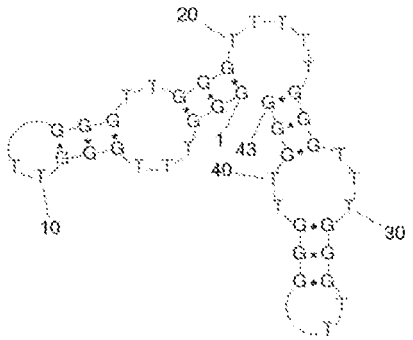
[図22]



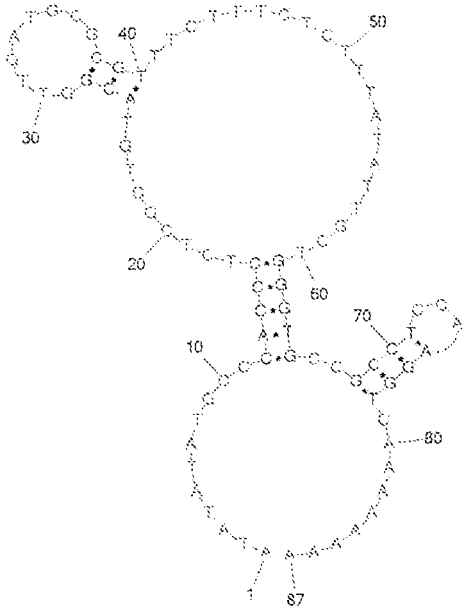
ＲＨＡ０００６_ｓ１９_ｄ_Ｒ２０
（配列番号４７）



ＲＨＡ０００６_ｓ１９_ｔ９
（配列番号５１）

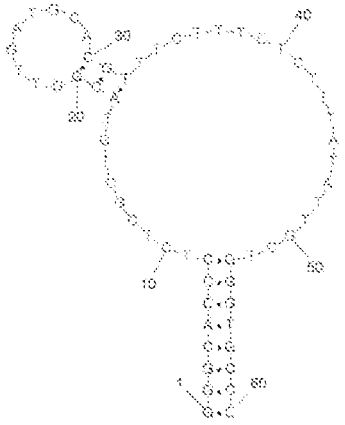


ＲＨＡ０００６__ｓ１９__ｄ５
（配列番号３３）

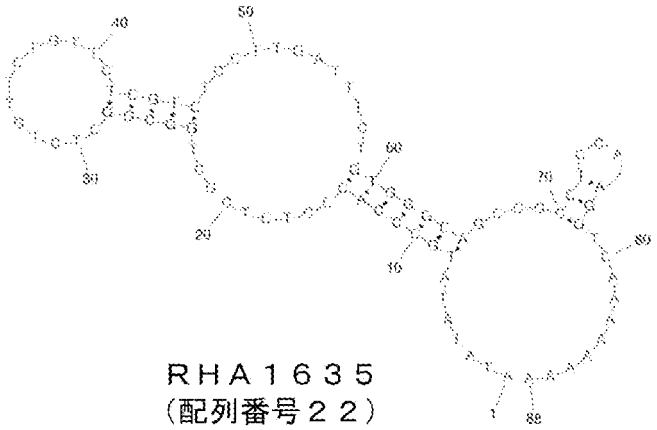


ＲＨＡ１６３４
（配列番号２０）

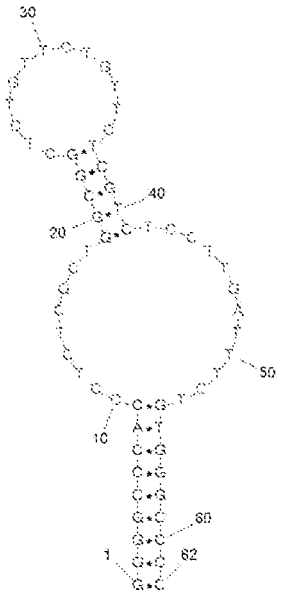
[図23]



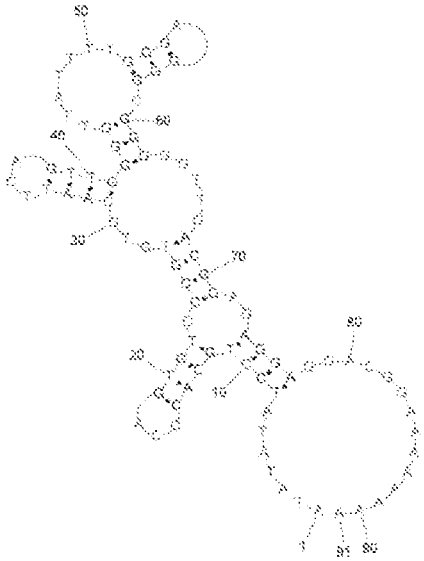
RHA1634__s60
（配列番号２１）



RHA1635
（配列番号２２）

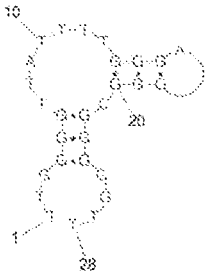


RHA1635__s62
（配列番号２３）

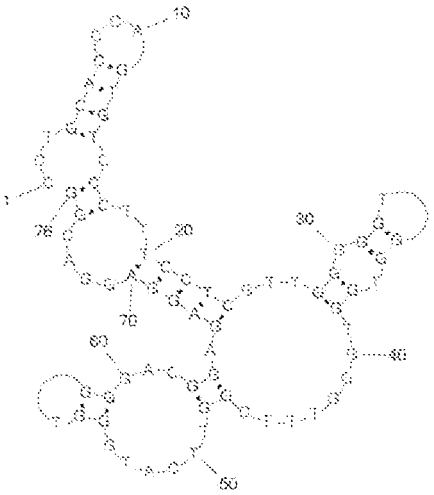


RHA0385
（配列番号２４）

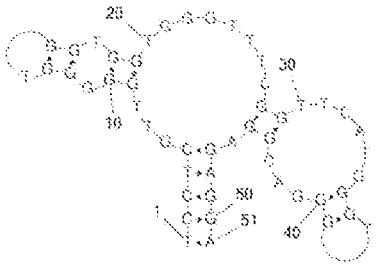
[図24]



ＲＨＡ０３８５＿ｓ２８
（配列番号２５）

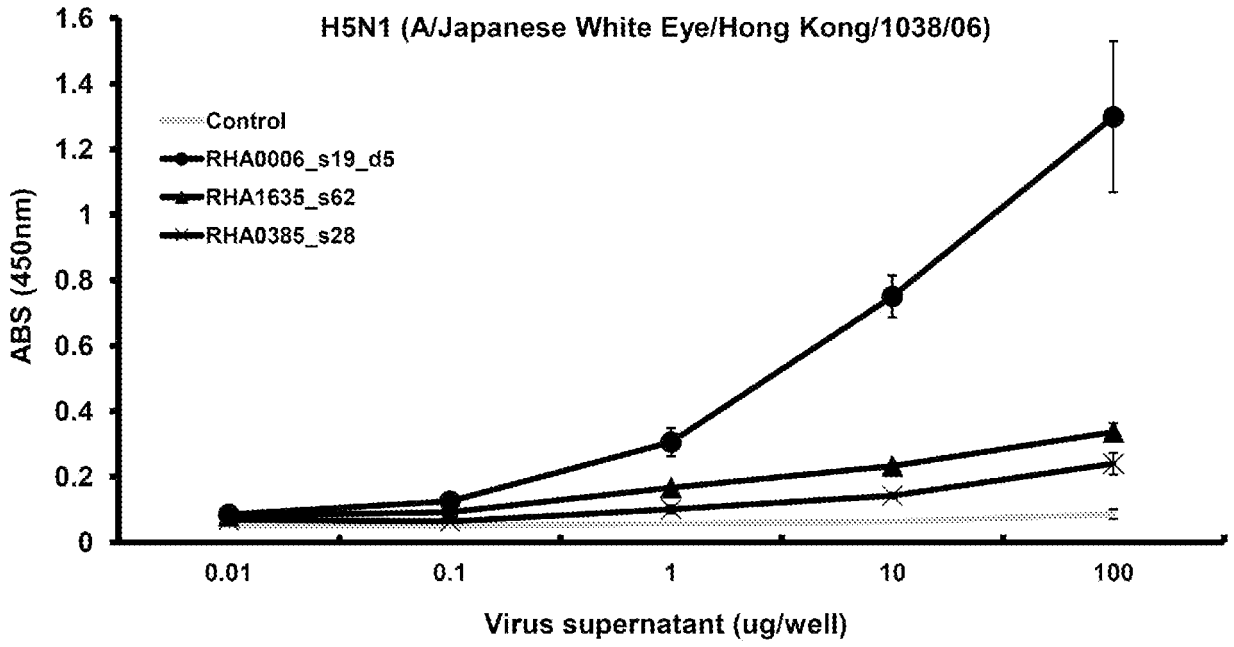


ＲＨＡ０４７１
（配列番号２６）

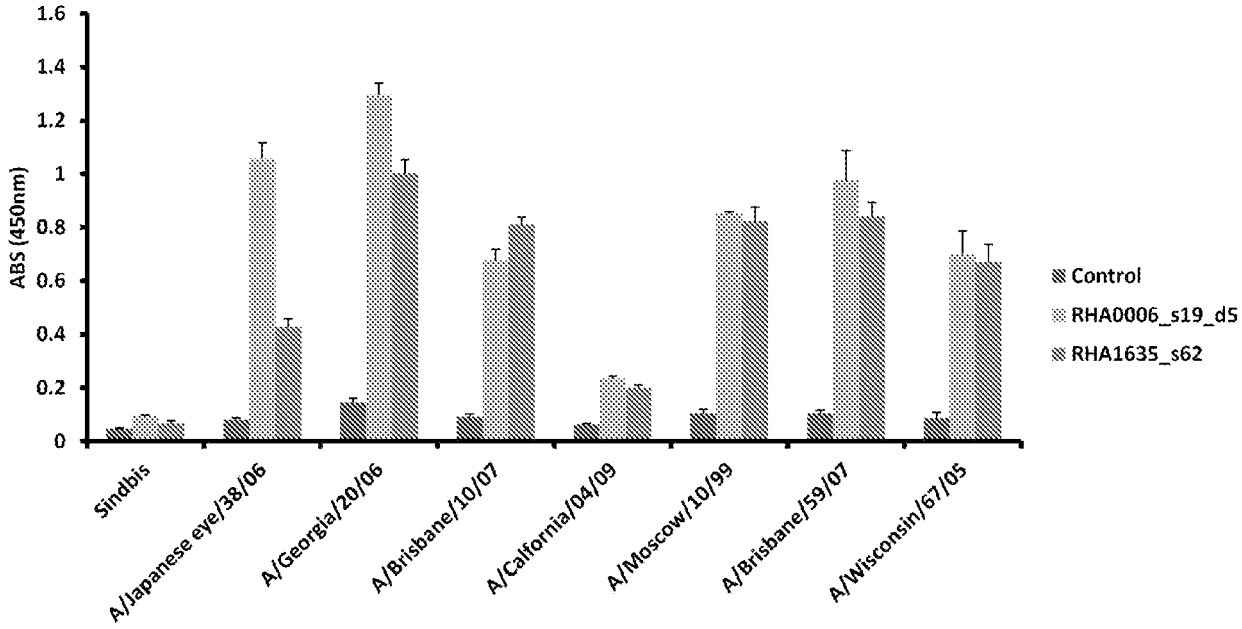


ＲＨＡ０４７１＿ｓ５１
（配列番号２７）

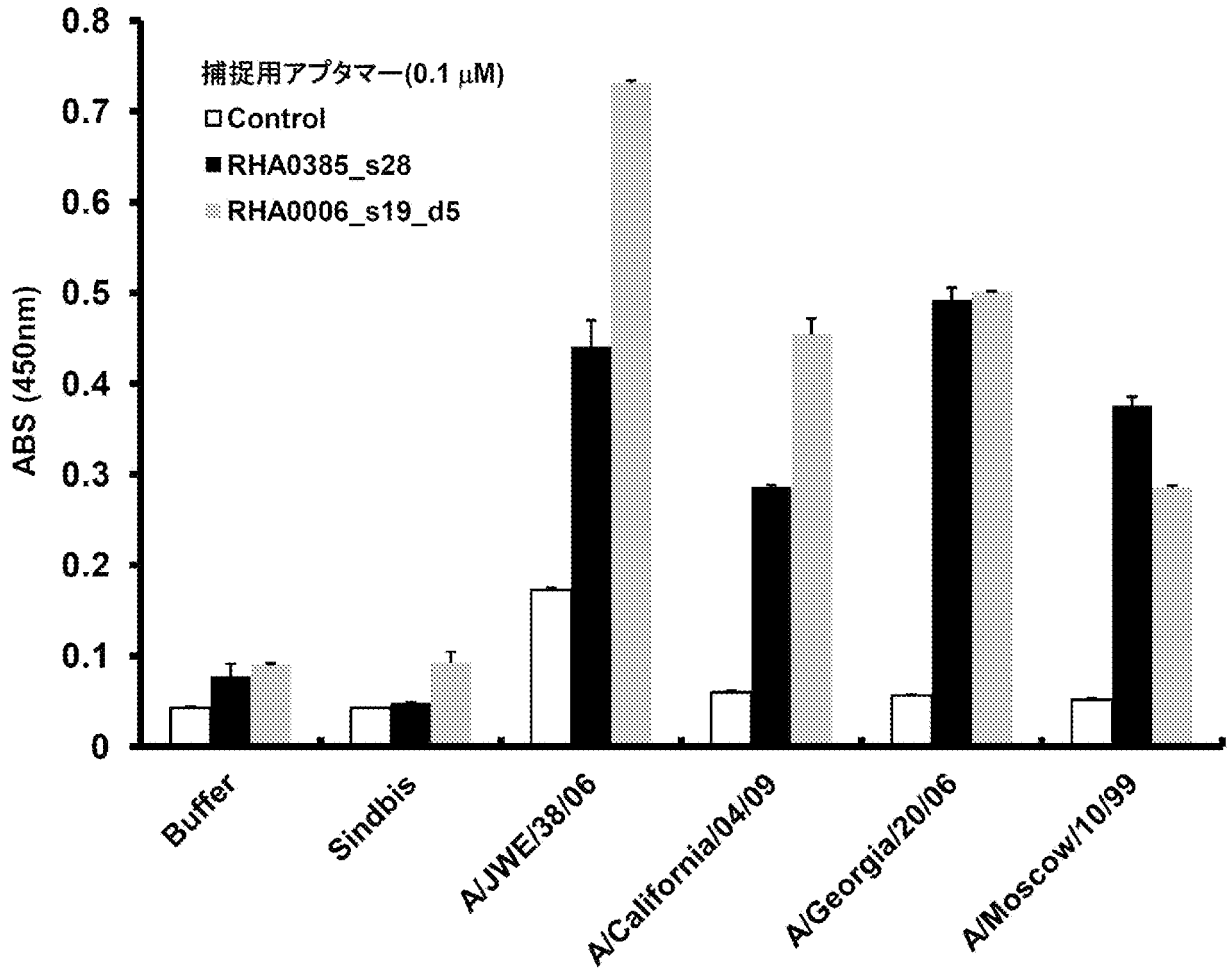
[図25]



[図26]


ABS (450nm)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Control
RHA0006_s19_d5
RHA1635_s62
Sindbis
A/Japanese eye/38/06
A/Georgia/20/06
A/Brisbane/10/07
A/California/04/09
A/Moscow/10/99
A/Brisbane/59/07
A/Wisconsin/67/05

[図27]


ABS (450nm)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
捕捉用アプタマー(0.1 μM)
Control
RHA0385_s28
RHA0006_s19_d5
Buffer
Sindbis
A/JWE/38/06
A/California/04/09
A/Georgia/20/06
A/Moscow/10/99