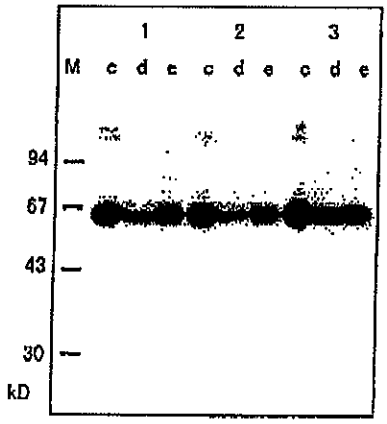




Monoclonal Antibody
1. FVA2-3
2. FVA2-6
3. FVA2-11

Antigen
a. r-NP/H1N1
b. r-NP/H3N2
c. Vaccine
d. A/Kita Kyushu/159/93
e. A/PR/8/34

Reactivities in Western Blotting

Fig.1

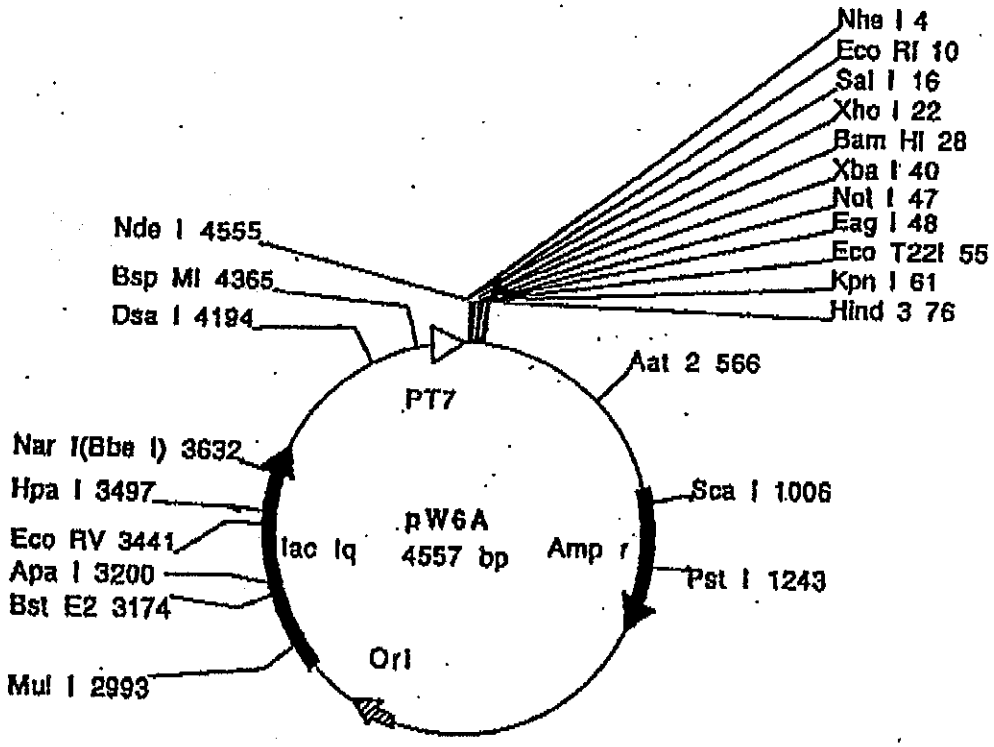

Nhe I 4
Eco RI 10
Sal I 16
Xho I 22
Bam HI 28
Xba I 40
Not I 47
Eag I 48
Eco T22I 55
Kpn I 61
Hind 3 76
Nde I 4555
Bsp MI 4365
Dsa I 4194
Aat 2 566
PT7
Nar I(Bbe I) 3632
Hpa I 3497
Eco RV 3441
Apa I 3200
Bst E2 3174
Mul I 2993
Sca I 1006
Pst I 1243
pW6A
4557 bp
lac Iq
Amp r
Ori

Fig.2

Deletion Construction of Influenza H1N1

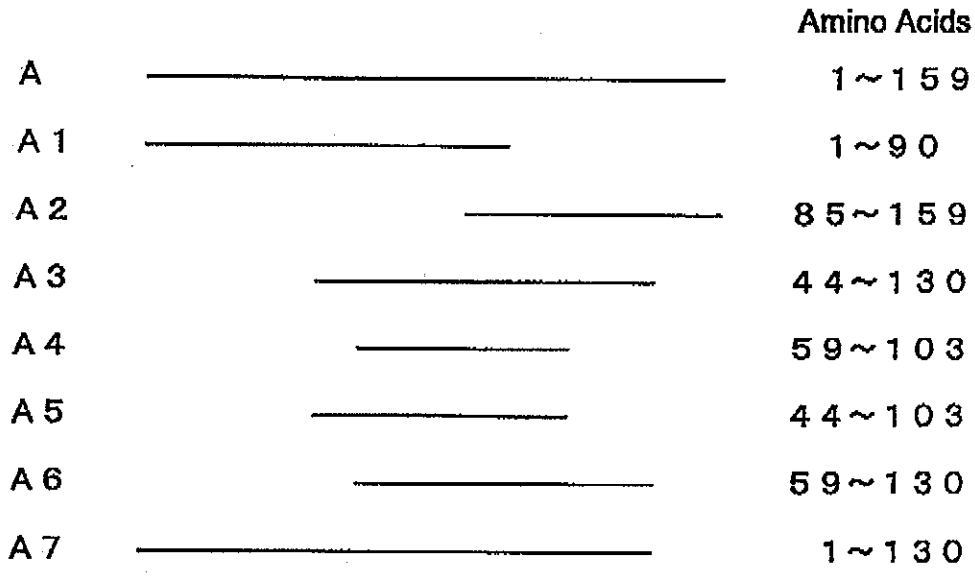
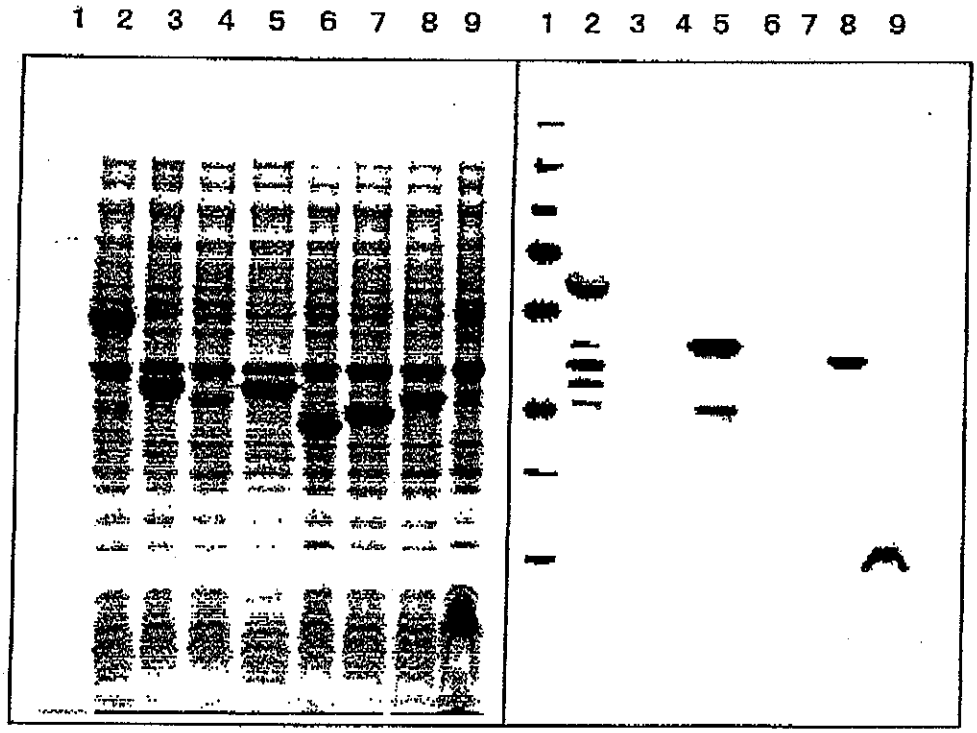


Fig.3

Reactivity of FVA2-11

(CBB Staining Pattern) (Western Blot)



Lane
1.MW marker
2.GST+A
3.GST+A1
4.GST+A2
5.GST+A3
6.GST+A4
7.GST+A5
8.GST+A6
9.A7

Fig.4

Amino Acid Sequence of Nucleoprotein of Influenza A Virus (59 ~ 140)

Subtype	Amino Acid Sequence
	60 70
H10N7	NSITIERMVLSAFDERRNKYL
H11N6	NSITIERMVLSAFDERRNKYL
H13N6	NSITIERMVLSAFDERRNKYL
H14N5	NSITIERMVLSAFDERRNKYL
H1N1	NSLTIERMVLSAFDERRNKYL
H2N2	NSLTIERMVLSAFDERRNKYL
H4N6	NSITIERMLLSAFDERRNKYL
H7N7	NSITIERMVLSAFDERRNKYL
	80 90 100
H10N7	EEHPSAGKDPKKTGGPIYRRRDGKWMRELT
H11N6	EEHPSAGKDPKKTGGPIYRRRDGKWVRELI
H13N6	EEHPSTGRDPKKTGGPIYRRRDGKWVRELV
H14N5	EEHPSAGKDPKKTGGPIYRRRDGKWMRELI
H1N1	EEHPSAGKDPKKTGGPIYRRVNGKWMRELI
H2N2	EEHPSAGKDPKKTGGPIYKRVNGKWMRELV
H4N6	EEHPSAGKDPKKTGGPIYRRRDGKWVRELI
H7N7	EEHPSAGKDPKKTGGPIYRRRDGKWMRELI
	110 120 130 140
H10N7	LYDKEEIRRIWRQANNGEDATAGLTHLMIWH
H11N6	LYDKEEIRRIWRQANNGEDATAGLTHLMIWH
H13N6	LYDKEEIRRIWRQANNGEDATAGLTHLMIWH
H14N5	LYDKEEIRRIWRQANNGEDATAGLTHLMIWH
H1N1	LYDKEEIRRIWRQANNGDDATAGLTHMMIWH
H2N2	LYDKEEIRRIWRQANNGDDATAGLTHMMIWH
H4N6	LYDKEEIRRIWRQANNGEDATAGLTHLMIWH
H7N7	LYDKEEIRRIWRQANNGEDATAGLTHLMIWH

Fig.5

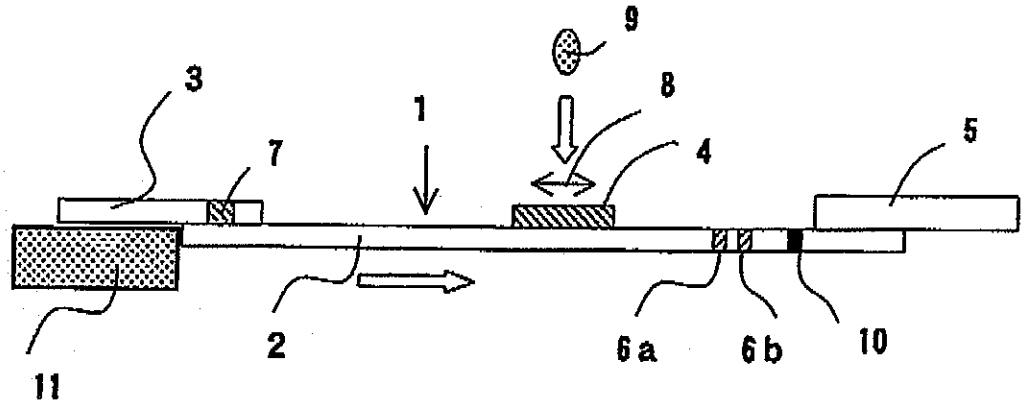


Fig.6

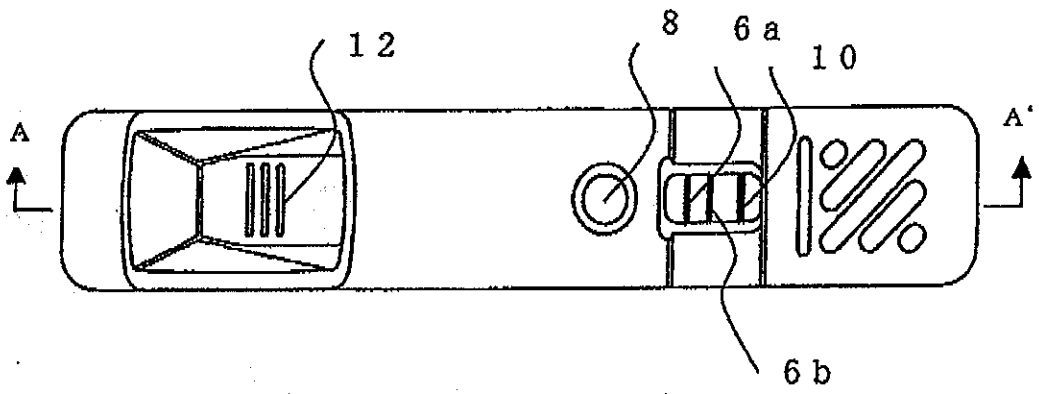


Fig.7

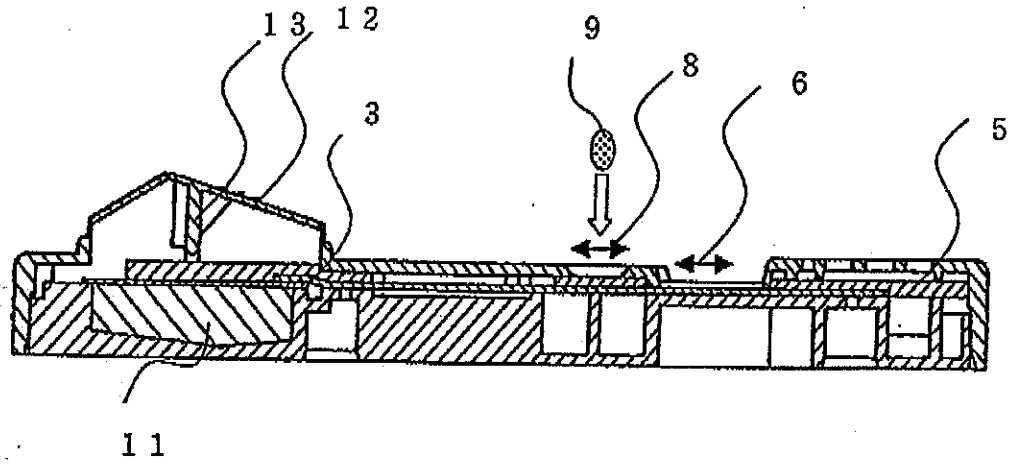


Fig.8