



Sino Biological
Biological Solution Specialist

World largest Influenza research tool bank

10

antigens

HA (HA0, HA1, HA2, HA), NA, NP, M1, M2, NS1, NS2, PB1, PB2, PA

60

subtypes

H1-H18, N1-N11, Influenza B

230

strains

vaccine strains, HPAI strains
newly discovered strains, et al.

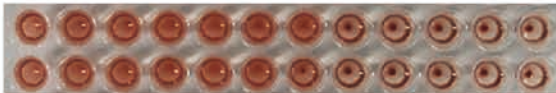
2500

reagents

Recombinant proteins, antibodies,
ELISA Kits, Genes, et al.

High activity HA protein

- ▶ High hemagglutination activity



H3N2 (A/Wisconsin/67/2005) (11972-V08B)



H7N9 (A/Anhui/1/2013) (40103-V08B)

- ▶ Binding activity to sialic acid
- ▶ Full length HA (HA0) protein

Cat No.	subtype	strain
11055-VNAB	H1N1	A/California/04/2009
40043-VNAB	H3N2	A/Perth/16/2009
40498-VNAB	Influenza B	B/PHUKET/3073/2013

- ▶ HA-specific B cell probe

Specifically binding to B cell that expressed HA-specific Abs

Cat No	subtype	strain	Mutation
11055-V08B1	H1N1	A/California/4/2009	Tyr 108 Phe
11683-V08B1	H1N1	A/New Caledonia/20/99	Tyr 108 Phe
40043-V08B1	H3N2	A/Perth/16/2009	Tyr 108 Phe
11060-V08B1	H5N1	A/Indonesia/5/2005	Tyr 107 Phe

More Proteins

NP	H1N1, H2N2, H3N2, H7N9, Influenza B	NS1	H1N1
M1	H1N1, H3N2, H7N9	NS2	H1N1

NA overexpression cell lysates

- ▶ High enzymatic activity

The activity is as high as 3000

Cat No	subtype	strain
40196-VNAHC	H1N1	A/Puerto Rico/8/1934
40235-VNAHC	H4N6	A/mallard/Ohio/657/2002
40045-VNAHC	H5N1	A/Egypt/2321-NAMRU3/2007
40202-VNAHC	H7N7	A/Netherlands/219/03
40108-VNAHC	H7N9	A/Anhui/1/2013
40109-VNAHC	H7N9	A/Shanghai/1/2013
40034-VNAHC	H9N2	A/Chicken/Hong Kong/G9/97

- ▶ Drug-resistant NA mutant

Cat No	subtype	strain	Mutation
11058-VNAHC1	H1N1	A/California/04/2009	H274Y
11058-VNAHC2	H1N1	A/California/04/2009	N295S
11676-VNAHC1	H5N1	A/Anhui/1/2005	H274Y
40017-VNAHC1	H3N2	A/Babol/36/2005	E119V
40017-VNAHC2	H3N2	A/Babol/36/2005	N294S
40017-VNAHC3	H3N2	A/Babol/36/2005	R292K
40017-VNAHC4	H3N2	A/Babol/36/2005	H274Y

- ▶ More NA proteins

NA H1N1, H3N2, H4N6, H5N1, H7N7, H7N9, H9N2, H10N8, H12N5, Influenza B

Proteins **500+**

All are in stock



Virus research tool bank

High activity viral proteins

► Spike protein: binding activity to DPP4, ACE2

► Gp140 protein: binding activity to CD4

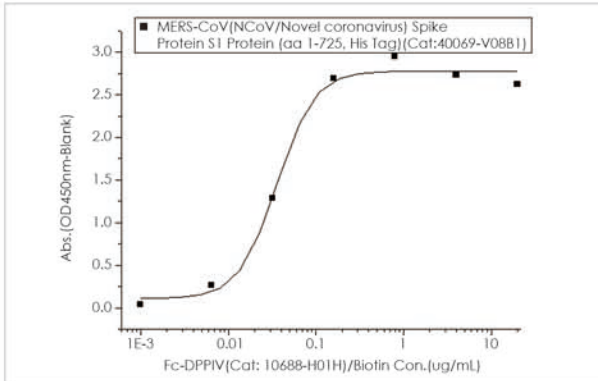


Fig. 1. S1 (Cat: 40069-V08B1) can bind biotinylated Fc-DPP4 (Cat: 10688-H01H). The EC50 is 0.02-0.06 µg/ml.

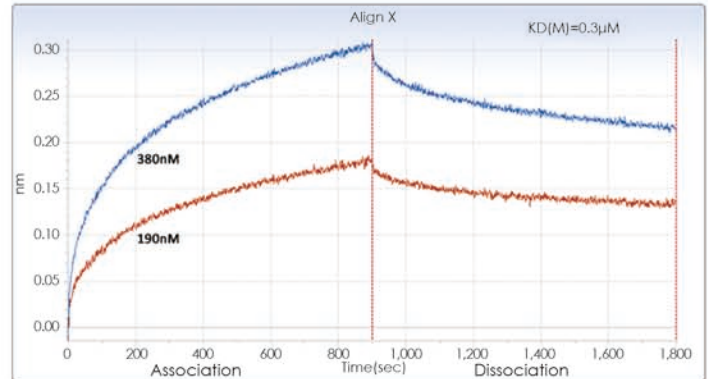


Figure 2: gp140 bind to CD4 (Cat NO. :11677-V02H)

Proteins spanning 17 viruses

17 Kinds of viruses

Zika virus

DENV

RVFV

HTNV

CMV

EBV

WNV

EV68

CAV68

EV71

CHIKV

RSV

Ebola virus

Zaire ebola, Sudan ebola, Bundibugyo ebola

HCV

HCV-1a, HCV-1b, HCV-1c

CoV

MERS-CoV, SARS-CoV, HKU1-CoV

Influenza virus

Influenza A, Influenza B

HIV

Subtype A, Subtype B, Subtype C, Subtype D, Subtype CRF07_BC, Subtype CRF01_AB

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