## ANTIBODIES ONLINE

# Datasheet for ABIN6657573 anti-Hemagglutinin antibody

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### Overview

Quantity:	100 µg
Target:	Hemagglutinin (HA)
Reactivity:	Influenza A Virus H5N1
Virus Strain:	A/Vietnam/1203/04
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Hemagglutinin antibody is un-conjugated
Application:	ELISA, Immunoprecipitation (IP), Western Blotting (WB), Neutralization (Neut), Immunohistochemistry (IHC)

### Product Details

Purpose:	H5N1 Antibody VN04-2
Immunogen:	A/Vietnam/1203/04 Influenza Virus (VN04-2) antibody was produced by intraperitoneal immunization of BALB/c mice with concentrated purified virus preparation containing hemagglutinin (HA) protein of influenza A virus [strain A/Vietnam/1203/04 (H5N1)] using the modification of the method described by Kohler and Milstein. Each mouse received two immunizations of 15 mug HA with incomplete Freund's adjuvant, administered 3 week apart.
Clone:	15A3
lsotype:	IgG2a kappa
Cross-Reactivity (Details):	VN04-2 monoclonal antibody did not cross-react with influenza viruses of other HA subtypes.
Purification:	This product was purified from tissue culture supernatant fluid by Protein A chromatography

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	and is specific for H5 hemagglutinin (HA) protein of influenza A virus [strain					
	A/Vietnam/1203/04 (H5N1)].					
Sterility:	Sterile filtered					
Target Details						
Target:	Hemagglutinin (HA)					
Alternative Name:	Hemagglutinin (HA Products)					
Target Type:	Influenza Protein					
Background:	Synonyms: mouse anti-H5N1 Antibody, mouse anti-VN04-2 Antibody, H5HA antibody,					
	Hemagglutinin 5 antibody, H5N1 antibody					
	Background: Hemagglutinin of A/Vietnam/1203/04 Influenza Virus (VN04-2) Antibody raised					
	against the hemagglutinin (HA) surface glycoprotein of the A/Vietnam/1203/04 (H5N1)					
	influenza virus. Generally referred to as "bird flu", the H5N1 influenza A virus has been					
	documented in poultry and humans across ten Eurasian countries, from Japan in the north to					
	Indonesia in the south. Without immunity, humans would have no protection against H5N1					
	influenza viruses, which could potentially cause a catastrophic pandemic influenza. This					
	antibody, directed against the HA surface glycoprotein of the A/Vietnam/1203/04 (H5N1)					
	influenza virus, is intended to further our understanding of the mechanisms underlying					
	antigenic variation and evolution of novel variants. The major functions of HA include receptor					
	binding and fusion activities, but there may also be a structural role for HA in viral particle					
	formation. Following attachment of HA to surface receptors on susceptible cells, the influenza					
	virus enters the cell via endocytosis and membrane fusion.					
	Gene Name: HA					
Gene ID:	159144921					
UniProt:	A8UDQ2					
Application Details						

Application Notes:	Neutralization_Dilution: User Optimized
	Immunoprecipitation_Dilution: User Optimized
	ELISA_Dilution: 1:5,000
	Immunohistochemistry_Dilution: User Optimized
	Western_Blot_Dilution: User Optimized
	Immunohistochemistry_Dilution: User Optimized

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# Application Details Comment: Suggested Applications: ELISA, FC, WB Hemagglutinin of A/Vietnam/1203/04 Influenza Virus (VN04-2) monoclonal antibody can be used for hemagglutination inhibition (HI) assays to provide antigenic characterization of the influenza A viruses of the H5 HA subtype. This monoclonal antibody is suitable for virus neutralization assays (in cell culture and in embryonated chicken eggs), ELISA, immunoprecipitation, immunohistochemistry and western blotting. Restrictions: For Research Use only

### Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
	Stabilizer: None
	Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended
	storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after
	standing at room temperature. This product is stable for several weeks at 4° C as an undiluted
	liquid. Dilute only prior to immediate use.
Expiry Date:	12 months
Publications	
Product cited in:	Reed, Yen, DuBois, Bridges, Salomon, Webster, Russell: "Amino acid residues in the fusion
	peptide pocket regulate the pH of activation of the H5N1 influenza virus hemagglutinin protein.

Govorkova, Webby, Humberd, Seiler, Webster: "Immunization with reverse-genetics-produced H5N1 influenza vaccine protects ferrets against homologous and heterologous challenge." in: **The Journal of infectious diseases**, Vol. 194, Issue 2, pp. 159-67, (2006) (PubMed).

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Hoffmann, Lipatov, Webby, Govorkova, Webster: "Role of specific hemagglutinin amino acids in the immunogenicity and protection of H5N1 influenza virus vaccines." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 102, Issue 36, pp. 12915-20, (2005) (PubMed).

### Images

HA	H5N1 Influenza Virus	HI titers with anti-HA monoclonal antibodies:					
Clade		VN04-2	VN048	VN04-9	VN04-10	VN04-13	VN04-16
H5 Ref.	A/Tern/South Africa/61	100	<	<	<	<	«
North American	A/Chicken/Penns/Ivania/1370/83	3200	<	25600	200	3200	<
	A/Mallard/ Pennsylvania/10218/84	800	<	200	6400	25600	400
	A/Chicken/Hidalgo/28159-2332/94	<	<	200	100	1600	<
	A/Mallard/Arkansas/1/2001	1600	<	200	400	3200	100
Clade 0	A/Hong Kong/156/97	6400	<	25600	6400	25600	400
	A/Hong Kong/481/97	6400	<	1600	1600	12800	100
	A/Duck/Singapore/3/97	200	<	200	800	6400	200
	A/Goose/Hong Kong/437-4/99	6400	<	6400	1600	6400	200
Clade 1	A/Vietnam/1194/2004	3200	1600	12800	3200	6400	1600
	A/Vietnam/1203/2004	6400	1600	12800	3200	6400	1600
	A/Vietnam/HN30408/2005	6400	3200	3200	3200	6400	1600
	A/Hong Kong/213/2003	6400	3200	400	3200	800	3200
Clade 2.1.2	A/Indonesia/6/2005	3200	<	800	25600	200	6400
	A/Indonesia/5/2005	<	<	400	12800	200	3200
	A/Chicken/Indonesia/PA03/2003	800	3200	200	3200	1600	1600
lade 2.1.3	A/Duck/HUM/VG/1504/2004	1600	<	3200	1600	<	400
.tade 21.5	A/Duck/GXLA/1304/2004	*	1600	*	3200	1600	1600
	A/Chicken/Jogiakarta/BBVET/IX/2004	100	<	100	3200	3200	400
	A/Chicken/Malang/BBVET/IV/2004	3200	3200	<	3200	3200	1600
Clade 2.2	A/Whooper swan/Mongolia/244/2005	<	1600	<	3200	1600	1600
	A/Turkey/15/2006	100	<	<	3200	<	400
	A/Bar headed goose/Q inghai/1A/2005	100	6400	<	6400	12800	3200
Clade 2.3.4	A/Duck/Hunan/15/2004	1600	<	3200	1600	<	400
	A/Duck/Laos/3295/2006	<	۲	400	1600	100	100
	A/Chicken/Malaysia/935/2006	100	۲	400	800	100	100
	A/Common magpie/Hong Kong/645/2006	<	<	200	400	<	100
Clade 2.4	A/Duck/Guanoxi/13/2004	<	1600	<	3200	1600	1600

Cross reactivity of anti-Al/Vietnam/1203/2004 (H5N1) HA monoclonal antibodies with H5N1 influenza viruses in HI assay.

Hemagglutination-inhibition (HI) testing was performed with 0.5% chicken red blood cells by standard method. <- less than 1:100.

**Image 1.** anti H5N1 antibody-Virus Neutralization Shown are titers of anti H5N1 antibodies against a variety of H5N1 influenza viruses .