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Datasheet for ABIN6657575 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), Immunohistochemistry (IHC)
Product Details	
Immunogen:	Immunogen: Hemagglutinin of A/Vietnam/1203/04 Influenza Virus (VN04-8) monoclonal
	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.
	Immunogen Type: Native Protein
Clone:	3G2
Isotype:	lgG1
Purification:	This product was purified from tissue culture supernatant fluid by Protein A chromatography
	and is specific for H5 hemagglutinin (HA) protein of influenza A virus [strain

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6657575 | 01/12/2024 | Copyright antibodies-online. All rights reserved. A/Vietnam/1203/04 (H5N1)]. VN04-8 monoclonal antibody did not cross-react with influenza viruses of other HA subtypes. This monoclonal antibody reacted with H5N1 influenza viruses representatives of different clades and subclades of the H5 HA subtype.

Target Details

900 - 00000	
Target:	Hemagglutinin (HA)
Alternative Name:	Hemagglutinin (HA Products)
Target Type:	Influenza Protein
Background:	Synonyms: mouse anti-H5N1 Antibody, mouse anti-VN04-8 Antibody, H5HA antibody,
	Hemagglutinin 5 antibody, H5N1 antibody
	Background: Hemagglutinin of A/Vietnam/1203/04 Influenza Virus (VN04-8) 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:	Immunohistochemistry Dilution: User Optimized
	Application Note: Hemagglutinin of A/Vietnam/1203/04 Influenza Virus (VN04-8) 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), ELIS

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immunoprecipitation, immunohistochemistry and western blotting.

	Neutralization Dilution: User Optimized
	Immunoprecipitation Dilution: User Optimized
	ELISA Dilution: 1:5,000
	Western Blot Dilution: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
	0.01 % (w/v) Sodium Azide
	Stabilizer: None
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:	RT,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.
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."
	in: Journal of virology , Vol. 83, Issue 8, pp. 3568-80, (2009) (PubMed).
	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).
	Hanson, Boon, Lim, Webb, Ooi, Webby: "Passive immunoprophylaxis and therapy with
	Hanson, Boon, Lim, Webb, Ooi, Webby: "Passive immunoprophylaxis and therapy with humanized monoclonal antibody specific for influenza A H5 hemagglutinin in mice." in:

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Images

HA Clade HI titers with anti-HA monoclonal antibodies H5N1 Influenza Virus VN04-2 VN04-8 VN04-9 VN04-10 VN04-13 VN04-16 H5 Ref South Africal nn sylvania/1370/83 nn sylvania/10218/84 Ialgo/28159-2332/94 North American 1600 6400 6400 200 6400 Hong Kong/156/97 Hong Kong/481/97 Juck/Singerom (200 2560 1600 200 6400 400 6400 1600 46 100 20° 2560 1280 Clade 0 437-4/99 320 640 Clade 1 lade 2.1.3 icken/Indonessi ick/HUNW/G/1504/20 ick/GXLA/1304/2004 hicken/Jogjakarta/BB\ Clade 213 jakarta/BBVET/IX/20 ang/BBVET/IV/2004 /an/Mongolia/244/200 100 3200 3200 < 100 100 Clade 2.2 « 6400 128 Clade 2.3.4 400 100 100 100 Clade 2.4 d with 0.5%c en red blood cells by standard method. < - less than 1:100. on (HI)

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

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

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