

Product Specification Sheet

Hemagglutinin (HA) Antibodies

<input type="checkbox"/> Cat. # AB-23091-A	Rabbit Anti-Influenza A virus HA IgG (aff pure)	SIZE: 100 ug
<input type="checkbox"/> Cat. # AB-23091-P	Influenza A virus HA Control/blocking peptide	SIZE: 100 ug

HA is a glycoprotein that binds to sialic acid-containing receptors on the cell surface, bringing about the attachment of the virus particle to the cell. This attachment induces virion internalization of about two third of the virus particles through clathrin-dependent endocytosis and about one third through a clathrin- and caveolin-independent pathway. Plays a major role in the determination of host range restriction and virulence. Class I viral fusion protein. Responsible for penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane. Low pH in endosomes induces an irreversible conformational change in HA2, releasing the fusion hydrophobic peptide. Several trimers are required to form a competent fusion pore

Protein name Hemagglutinin

Gene name HA

Subcellular location Virion membrane; Single-pass type I membrane protein. Host apical cell membrane; Single-pass type I membrane protein.

Sequence similarities Belongs to the influenza viruses hemagglutinin family.

Source of Antigen and Antibodies

Antigen	28-aa peptides of Influenza A virus Hemagglutinin (HA); (protein accession # D3THC9). (designated AB-23091-P or control peptide) conjugated to KLH; Epitope location; ~C terminal.
Ab Host/type	Rabbit, polyclonal Aff pure IgG1 (cat # AB-23091-A) purified over the antigen column
2-ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available
-ve control	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

- 100 ug/100ul solution lyophilized powder

Supplied in **Buffer:** PBS+0.1% BSA

Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

- 100 ug/100 ul solution lyophilized powder

Supplied in **Buffer:** PBS pH 7.5,

Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at 20°C and powder at 4°C or -20°C..

Long-term: at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20°C or below.

Shipping: 4°C for solutions and room temp for powder

Recommended Usage

Western Blotting (1:1K-5K for neat serum and 1-10 ug/ml for affinity pure using Chemiluminescence technique).

ELISA (1:10K-1:100K; using 50-100 ng of control peptide/well).

Histochemistry & Immunofluorescence: not tested. We recommend the use of affinity pure antibody at 2-20 ug/ml.

Specificity & Cross-reactivity

The AB-23091-P control peptides, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity.

General References Melidou A., (2010). Virus Res. White JM., (1997). Structural Biology of Viruses. 80-104. Stegmann T., (1987). JBC. 262: 36, 17744-17749.

**This product is for In vitro research use only.*

Related materials available from ADI

Antibodies:

ReadyBlot **Kidney Protein Explorer**-Study distribution of protein in various regions of the Influenza A virus/rat kidney using the pre-made protein blots; Western blot recycling kit-Use the same blot for WNK1-4.

AB-23091-A-P

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