

Product datasheet for **AM00939PU-N**

Influenza A (Haemagglutinin H3) Mouse Monoclonal Antibody [Clone ID: B263M]

Product data:

Product Type:	Primary Antibodies
Clone Name:	B263M
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western Blot.
Reactivity:	Influenza A Virus
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Influenza A/Shangdong/9/93 (strain H3N2). Hybridization of Sp2/0 myeloma cells with spleen cells from BALB/c mice.
Specificity:	This antibody reacts to Influenza A Virus Hemagglutinin H3. Reacts with Hemagglutinin of H3 serotype.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction (>90% pure by SDS-PAGE).
Concentration:	lot specific
Purification:	Protein A Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.



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Background:

Influenza A Hemagglutinin 3 binds to sialic acid-containing receptors on the cell surface, bringing about the attachment of the virus particle to the cell. 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 induce an irreversible conformational change in HA2, releasing the fusion hydrophobic peptide. Several trimers are required to form a competent fusion pore.

The extent of infection into host organism is determined by HA. Influenza viruses bud from the apical surface of polarized epithelial cells (e.g. bronchial epithelial cells) into lumen of lungs and are therefore usually pneumotropic. The reason is that HA is cleaved by trypsin which is restricted to lungs. However, HAs of H5 and H7 pantropic avian viruses subtypes can be cleaved by furin and subtilisin-type enzymes, allowing the virus to grow in other organs than lungs.

Synonyms:

Influenza A Virus, Seasonal Flu