abcam

ab22396

Anti-Matrix protein 1 antibody [GA2B]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.5 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Virus preparation containing Matrix protein 1 protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	GA2B
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	>90% IgG content as established by SDS PAGE

Reactivity data

WB

Expected

Species	Influenza A
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Expected

Species	Influenza A
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Influenza A
Dilution info	1/100
Notes	-

Flow Cyt

Expected

Species	Influenza A
Dilution info	-
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target data

See full target information M

Function	Plays critical roles in virus replication, from virus entry and uncoating to assembly and budding of the virus particle. M1 binding to ribonucleocapsids (RNPs) in nucleus seems to inhibit viral transcription. Interaction of viral NEP with M1-RNP is thought to promote nuclear export of the complex, which is targeted to the virion assembly site at the apical plasma membrane in polarized epithelial cells. Interactions with NA and HA may bring M1, a non-raft-associated protein, into lipid rafts. Forms a continuous shell on the inner side of the lipid bilayer in virion, where it binds the RNP. During virus entry into cell, the M2 ion channel acidifies the internal virion core, inducing M1 dissociation from the RNP. M1-free RNPs are transported to the nucleus, where viral transcription and replication can take place. Determines the virion's shape: spherical or filamentous. Clinical isolates of influenza are characterized by the presence of significant proportion of filamentous virions, whereas after multiple passage on eggs or cell culture, virions have only spherical morphology. Filamentous virions are thought to be important to infect neighboring cells, and spherical virions more suited to spread through aerosol between hosts organisms.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

1 product image

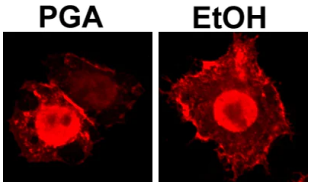


Image from Chase GP et al., PLoS Pathog. 2011 Sep;7(9):e1002187. Epub 2011 Sep 1.Fig 4.; doi:10.1371/journal.ppat.1002187; September 1, 2011, PLoS Pathog 7(9): e1002187.

Immunocytochemistry/ Immunofluorescence - Anti-Matrix protein 1 antibody [GA2B] (ab22396)

Matrix protein 1 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-Matrix protein 1 antibody

Immunofluorescence analysis of HeLa cells staining Influenza A Virus M1 using ab22396.

Cells were treated with either 20 µg/ml Prostaglandin A (PGA) or EtOH vehicle control, 3 hours post infection by Influenza A Virus, then fractionated at 9 hours post infection before analysis by immunofluorescence.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.