abcam

Product datasheet

Anti-Matrix protein 1 antibody [GA2B] ab22396

1 Abreviews 13 References 2 Images

Overview

Product name	Anti-Matrix protein 1 antibody [GA2B]
Description	Mouse monoclonal [GA2B] to Matrix protein 1
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt, IHC-P, WB, ICC/IF
Species reactivity	**Reacts with:** Species independent
Immunogen	Tissue/ cell preparation- Influenza A/ Puerto Rico/ 8/ 34 (H1N1) and A/Bangkok/ 1/ 79 (H3N2) viruses

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.50 Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	GA2B
Myeloma	P3x63-Ag8.653
Isotype	IgG1

Applications

Our Abpromise guarantee covers the use of **ab22396** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes

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Flow Cyt	★★★★☆	Use at an assay dependent concentration. PubMed: 20413723 ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.
ICC/IF		1/100.

Target

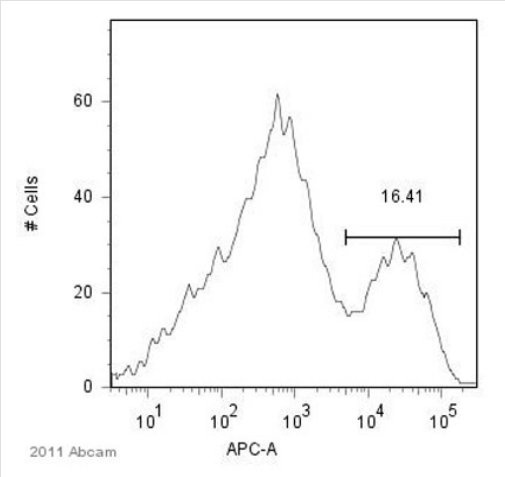
Relevance

Influenza virus type A matrix protein, also known as M1, is composed of a 252 amino acid sequence and is type-specific in influenza viruses. It is located inside the viral lipid envelope and plays a key role in virus assembly and replication. M1 can be isolated from particles by removing the envelope with detergents and reducing the pH to 4.0. Influenza viruses are a common and widely spread infectious agent. Like many other viruses, influenza virus are constantly undergoing mutations and thereby avoiding the immune system. The Influenza A Virus M proteins form a continuous shell on the inner side of the lipid bilayer, maintaining the structural integrity of the virus particle through hydrophobic interactions.

Cellular localization

Cytoplasmic

Images



Flow Cytometry - Anti-Matrix protein 1 antibody [GA2B] (ab22396)

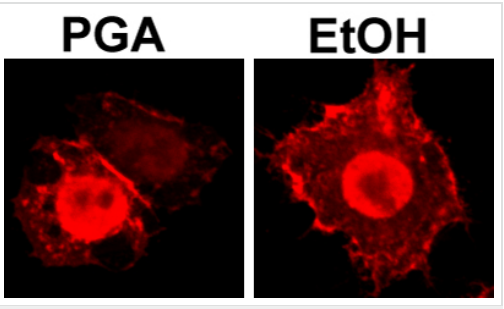
Image courtesy of an anonymous Abreview.

ab22396 used in Flow Cytometry.

Influenza infected A549 cells were trypsinized, fixed in paraformaldehyde, permeabilized and then incubated with ab22396 for analysis by Flow Cytometry.

ab22396 used at a 1/200 dilution.

The secondary used was ab96874, diluted 1/200.



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

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.

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.

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