

## Product datasheet

# Anti-Matrix protein 1 antibody [GA2B] ab22396

★★★★★ 2 Abreviews 19 References 1 Image

### Overview

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

### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.50 Preservative: 0.09% Sodium azide Constituent: PBS
<b>Purity</b>	SDS-PAGE
<b>Purification notes</b>	>90% IgG content as established by SDS PAGE
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	GA2B
<b>Myeloma</b>	P3x63-Ag8.653
<b>Isotype</b>	IgG1

### Applications

## Applications

### The Abpromise guarantee

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
Flow Cyt	★★★★★ (1)	Use at an assay dependent concentration. PubMed: 20413723 <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration.
WB	★★★★★ (1)	Use at an assay dependent concentration.
ICC/IF		1/100.

## Target

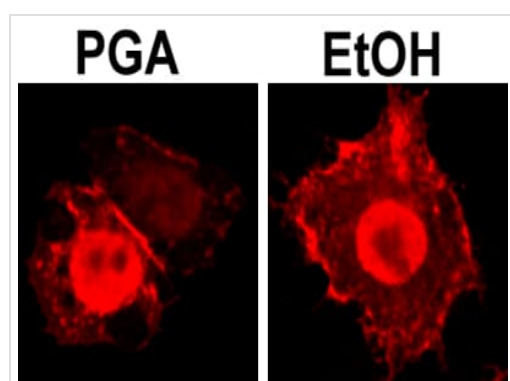
### Relevance

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



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.

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.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## **Terms and conditions**

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors