

Product datasheet

Anti-GPNMB antibody [SP299] - BSA and Azide free ab272016

Recombinant

8 Images

Overview

Product name	Anti-GPNMB antibody [SP299] - BSA and Azide free
Description	Rabbit monoclonal [SP299] to GPNMB - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, Flow Cyt, WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human GPNMB aa 1-500. The exact sequence is proprietary. Database link: Q14956
Positive control	Flow Cyt: A-375 cells. IHC-P: Human tonsil, reactive lymph node, lung, colon, lung squamous cell carcinoma and cervical squamous cell carcinoma tissues.
General notes	<p>ab272016 is the carrier-free version of ab227695.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	SP299
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab272016 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with EDTA buffer pH 8.0 before commencing with IHC staining protocol. Primary incubation for 10 minutes at room temperature.
Flow Cyt		Use at an assay dependent concentration. Primary incubation for 30 minutes at 4°C.
WB		Use at an assay dependent concentration. Predicted molecular weight: 64 kDa. Primary incubation for 1 hour at room temperature.

Target

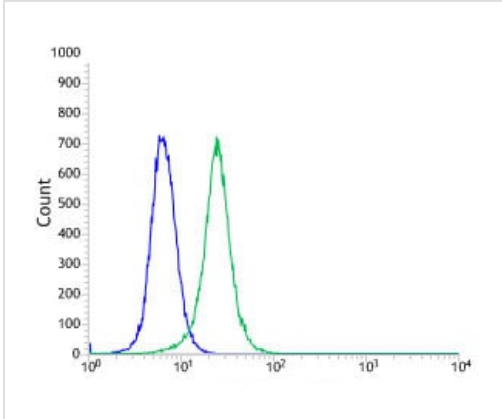
Function	Could be a melanogenic enzyme.
Tissue specificity	Not restricted to the melanocytic lineage.
Sequence similarities	Belongs to the PMEL/NMB family. Contains 1 PKD domain.
Developmental stage	Expression in poorly metastatic melanoma cell lines; no expression in highly metastatic

melanoma cell lines.

Cellular localization

Membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

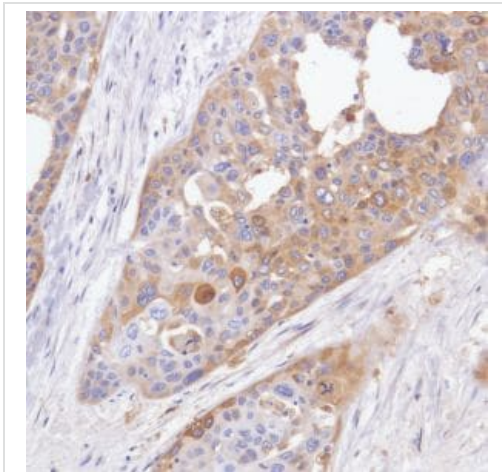
Images



Flow Cytometry - Anti-GPNMB antibody [SP299] - BSA and Azide free (ab272016)

Flow Cytometry analysis of A-375 (human malignant melanoma cell line) cells, labeling GPNMB with [ab227695](#) at 1/100 dilution (green) compared to a Rabbit IgG negative control (blue).

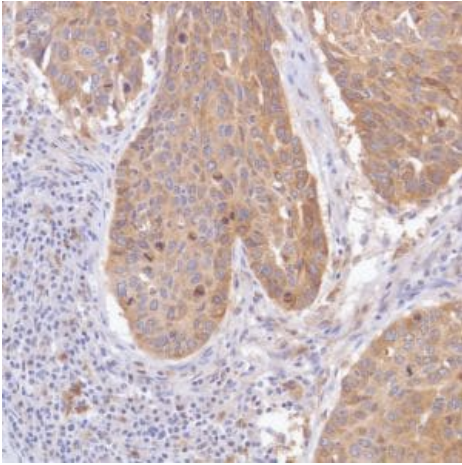
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227695](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPNMB antibody [SP299] - BSA and Azide free (ab272016)

Formalin-fixed, paraffin-embedded human cervical squamous cell carcinoma tissue stained for GPNMB using [ab227695](#) at 1/100 dilution in immunohistochemical analysis.

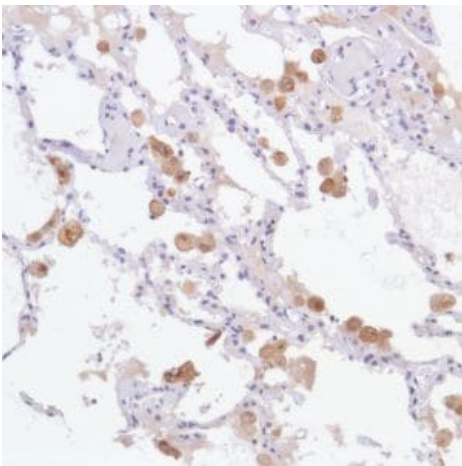
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227695](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPNMB antibody [SP299] - BSA and Azide free (ab272016)

Formalin-fixed, paraffin-embedded human lung squamous cell carcinoma tissue stained for GPNMB using [ab227695](#) at 1/100 dilution in immunohistochemical analysis.

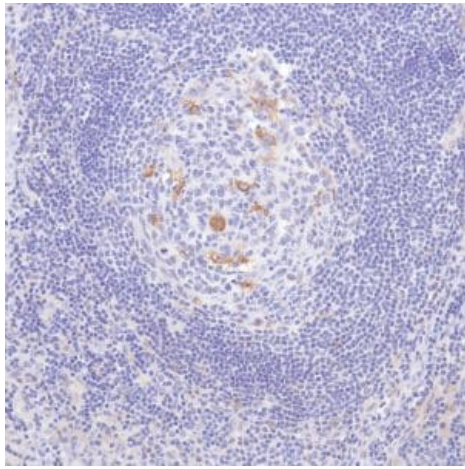
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227695](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPNMB antibody [SP299] - BSA and Azide free (ab272016)

Formalin-fixed, paraffin-embedded human lung tissue stained for GPNMB using [ab227695](#) at 1/100 dilution in immunohistochemical analysis.

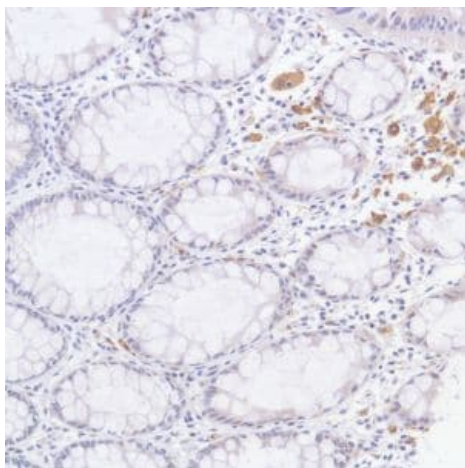
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227695](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPNMB antibody [SP299] - BSA and Azide free (ab272016)

Formalin-fixed, paraffin-embedded human reactive lymph node tissue stained for GPNMB using [ab227695](#) at 1/100 dilution in immunohistochemical analysis.

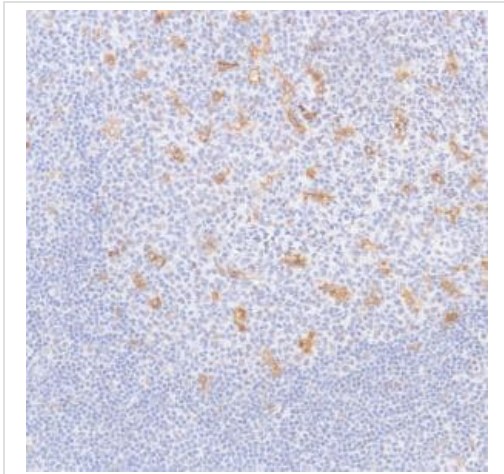
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227695](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPNMB antibody [SP299] - BSA and Azide free (ab272016)

Formalin-fixed, paraffin-embedded human colon tissue stained for GPNMB using [ab227695](#) at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227695](#)).







Formalin-fixed, paraffin-embedded human tonsil tissue stained for GPNMB using [ab227695](#) at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227695](#)).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPNMB antibody [SP299] - BSA and Azide free (ab272016)

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

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

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