

# Anti-GPNMB antibody [EPR22011-11] - BSA and Azide free ab236209

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-GPNMB antibody [EPR22011-11] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR22011-11] to GPNMB - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: SK-MEL-28, SK-MEL-2 whole cell lysate. IHC-P: Human melanoma and colonic carcinoma tissues.
<b>General notes</b>	<p>ab236209 is the carrier-free version of <a href="#">ab222109</a>.</p> <p>Our <b>carrier-free</b> 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 <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;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<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> 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"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22011-11
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab236209 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	★★★★★ (1)	Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 95, 120 kDa (predicted molecular weight: 64 kDa).

## Target

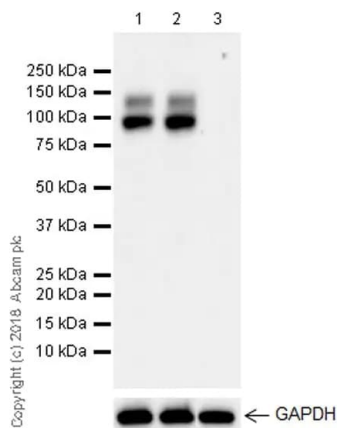
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<b>Function</b>	Could be a melanogenic enzyme.
<b>Tissue specificity</b>	Not restricted to the melanocytic lineage.
<b>Sequence similarities</b>	Belongs to the PMEL/NMB family. Contains 1 PKD domain.
<b>Developmental stage</b>	Expression in poorly metastatic melanoma cell lines; no expression in highly metastatic melanoma cell lines.
<b>Cellular localization</b>	Membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

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## Images

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Western blot - Anti-GPNMB antibody [EPR22011-11] - BSA and Azide free (ab236209)

**All lanes** : Anti-GPNMB antibody [EPR22011-11] ([ab222109](#)) at 1/1000 dilution

**Lane 1** : SK-MEL-28 (human malignant melanoma) whole cell lysate

**Lane 2** : SK-MEL-2 (Human skin malignant melanoma) whole cell lysate

**Lane 3** : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 64 kDa

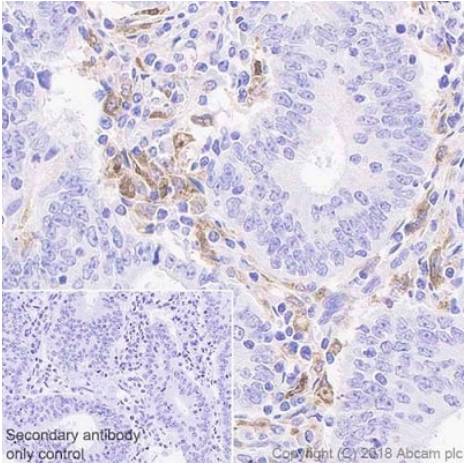
**Observed band size:** 120,95 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab222109](#)).

Blocking/Dilution buffer: 5% NFDm/TBST.

The molecular mass observed is consistent with what has been described in the literature (PMID: 19320736).

**Negative control:** HeLa (PMID: 20056711)



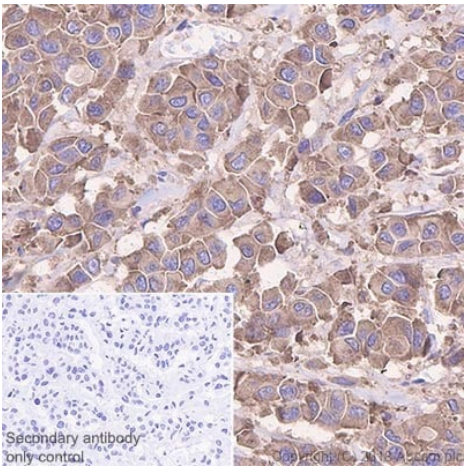
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPNMB antibody [EPR22011-11] - BSA and Azide free (ab236209)

Immunohistochemical analysis of paraffin-embedded human colonic carcinoma tissue labeling GPNMB with **ab222109** at 1/1000 dilution, followed by a Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on stroma cells of human colonic carcinoma. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222109**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GPNMB antibody [EPR22011-11] - BSA and Azide free (ab236209)

Immunohistochemical analysis of paraffin-embedded human melanoma tissue labeling GPNMB with **ab222109** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining in tumor cells of human melanoma. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab222109**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

### 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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