

Product datasheet

Anti-CPM antibody [EPR8052] - BSA and Azide free ab248972

Recombinant RabMAb

7 Images

Overview

Product name	Anti-CPM antibody [EPR8052] - BSA and Azide free
Description	Rabbit monoclonal [EPR8052] to CPM - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human CPM aa 1-100 (N terminal). The exact sequence is proprietary.
General notes	Ab248972 is the carrier-free version of ab150405 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

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.

ab248972 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated

antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8052
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab248972** 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
WB		Use at an assay dependent concentration. Detects a band of approximately 62 kDa (predicted molecular weight: 51 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function

Specifically removes C-terminal basic residues (Arg or Lys) from peptides and proteins. It is believed to play important roles in the control of peptide hormone and growth factor activity at the cell surface, and in the membrane-localized degradation of extracellular proteins.

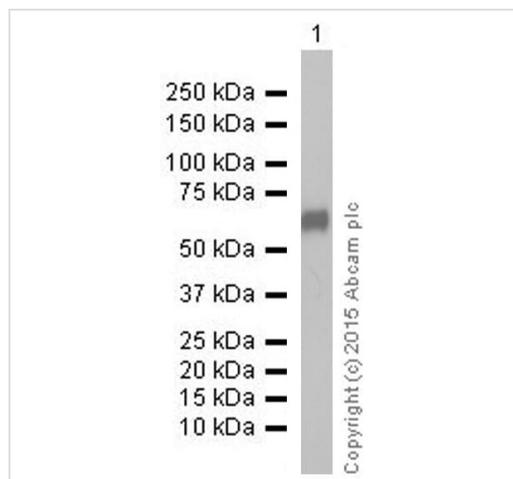
Sequence similarities

Belongs to the peptidase M14 family.

Cellular localization

Cell membrane.

Images



Western blot - Anti-CPM antibody [EPR8052] - BSA and Azide free (ab248972)

Anti-CPM antibody [EPR8052] ([ab150405](#)) at 1/2500 dilution (purified) + Human placenta tissue lysate at 10 µg

Secondary

HRP-conjugated goat anti-rabbit IgG, specific to the non-reduced form of IgG at 1/1000 dilution

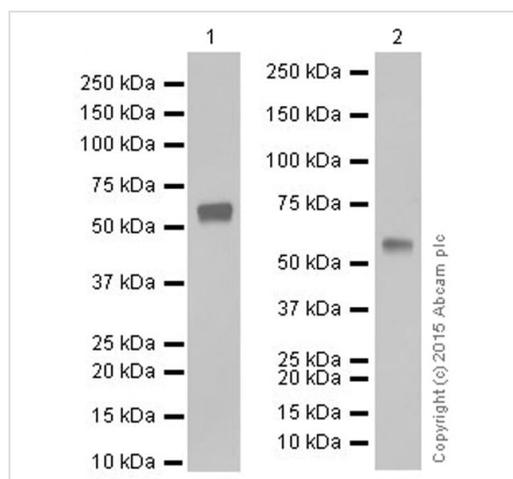
Predicted band size: 51 kDa

Observed band size: 62 kDa

[why is the actual band size different from the predicted?](#)

This data was developed using [ab150405](#), the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-CPM antibody [EPR8052] - BSA and Azide free (ab248972)

All lanes : Anti-CPM antibody [EPR8052] ([ab150405](#)) at 1/5000 dilution (purified)

Lane 1 : Human fetal liver tissue lysate

Lane 2 : Human fetal kidney tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

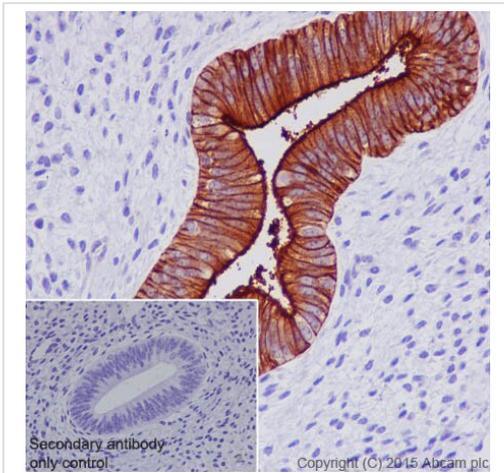
All lanes : HRP-conjugated goat anti-rabbit IgG, specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 51 kDa

Observed band size: 62 kDa [why is the actual band size different from the predicted?](#)

This data was developed using [ab150405](#), the same antibody clone in a different buffer formulation.

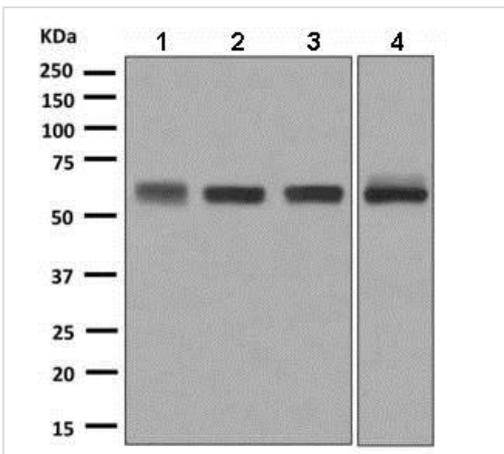
Blocking and dilution buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CPM antibody [EPR8052] - BSA and Azide free (ab248972)

This data was developed using [ab150405](#), the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human endometrium tissue labelling CPM with purified [ab150405](#) at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-CPM antibody [EPR8052] - BSA and Azide free (ab248972)

All lanes : Anti-CPM antibody [EPR8052] ([ab150405](#)) at 1/1000 dilution (unpurified)

Lane 1 : 293T (Human embryonic kidney epithelial cell) cell lysate

Lane 2 : Human fetal kidney tissue lysate

Lane 3 : Human fetal liver tissue lysate

Lane 4 : Human placenta lysate

Lysates/proteins at 10 µg per lane.

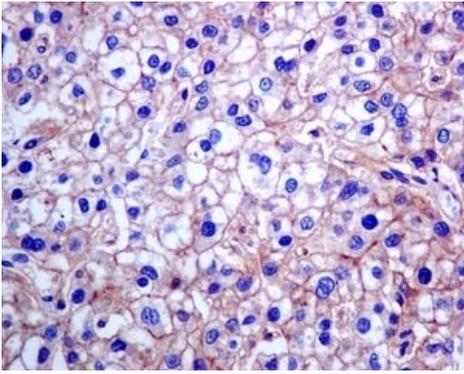
Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 51 kDa

Observed band size: 62 kDa [why is the actual band size different from the predicted?](#)

This data was developed using [ab150405](#), the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CPM antibody [EPR8052] - BSA and Azide free (ab248972)

This data was developed using [ab150405](#), the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human hepatocellular carcinoma tissue labelling CPM with unpurified [ab150405](#) at a dilution of 1/50.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CPM antibody [EPR8052] - BSA and Azide free (ab248972)

This data was developed using [ab150405](#), the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human uterus tissue labelling CPM with unpurified [ab150405](#) at a dilution of 1/50.

Perform heat mediated antigen retrieval 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

Anti-CPM antibody [EPR8052] - BSA and Azide free (ab248972)

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

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