


Product datasheet

Anti-MT4-MMP antibody [EP1270Y] - BSA and Azide free ab247310

Recombinant RabMAb

[4 Images](#)

Overview

Product name	Anti-MT4-MMP antibody [EP1270Y] - BSA and Azide free
Description	Rabbit monoclonal [EP1270Y] to MT4-MMP - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab247310 is the carrier-free version of ab51075.</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>

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	EP1270Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247310 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

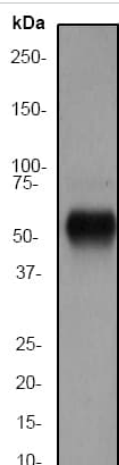
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 58 kDa (predicted molecular weight: 67 kDa).
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt or IP.

Target

Function	Endopeptidase that degrades various components of the extracellular matrix, such as fibrin. May be involved in the activation of membrane-bound precursors of growth factors or inflammatory mediators, such as tumor necrosis factor-alpha. May also be involved in tumoral process. Not obvious if able to proteolytically activate progelatinase A. Does not hydrolyze collagen types I, II, III, IV and V, gelatin, fibronectin, laminin, decorin nor alpha1-antitrypsin.
Tissue specificity	Expressed in brain, leukocytes, colon, ovary testis and breast cancer. Expressed also in many transformed and non-transformed cell types.
Sequence similarities	Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains.
Domain	The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.
Post-translational modifications	The precursor is cleaved by a furin endopeptidase.
Cellular localization	Cell membrane. Secreted > extracellular space > extracellular matrix.

Images



Western blot - Anti-MT4-MMP antibody [EP1270Y] - BSA and Azide free (ab247310)

Anti-MT4-MMP antibody [EP1270Y] ([ab51075](#)) at 1/1000 dilution + Mouse brain tissue lysate at 10 μ g

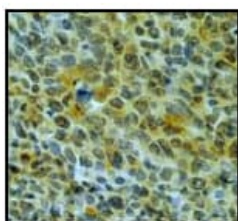
Secondary

Goat anti-Rabbit HRP labeled at 1/2000 dilution

Predicted band size: 67 kDa

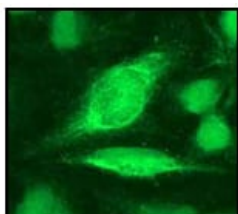
Observed band size: 58 kDa

This data was developed using [ab51075](#), the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MT4-MMP antibody [EP1270Y] - BSA and Azide free (ab247310)

This data was developed using [ab51075](#), the same antibody clone in a different buffer formulation. [ab51075](#) (1:50) staining human MT4-MMP in human lymphoma tissue by immunohistochemistry using paraffin embedded tissue. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-MT4-MMP antibody [EP1270Y] - BSA and Azide free (ab247310)

This data was developed using [ab51075](#), the same antibody clone in a different buffer formulation. Immunofluorescent staining of HeLa cells using [ab51075](#) (1:50).

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-MT4-MMP antibody [EP1270Y] - BSA and Azide free (ab247310)

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

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