

Product datasheet

Anti-MMP12 antibody [EP1261Y] ab52897

Recombinant RabMAb

[34 References](#) [4 Images](#)

Overview

Product name	Anti-MMP12 antibody [EP1261Y]
Description	Rabbit monoclonal [EP1261Y] to MMP12
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: Flow Cyt or IHC-P
Species reactivity	Reacts with: Human, Recombinant fragment
Immunogen	Synthetic peptide within Human MMP12 aa 450 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P39900
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1261Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52897 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

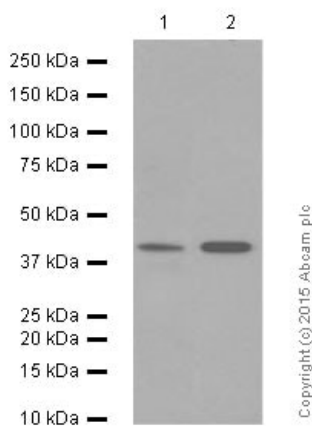
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).
IP		1/20. For unpurified use at 1/30.

Application notes Is unsuitable for Flow Cyt or IHC-P.

Target

Function	May be involved in tissue injury and remodeling. Has significant elastolytic activity. Can accept large and small amino acids at the P1' site, but has a preference for leucine. Aromatic or hydrophobic residues are preferred at the P1 site, with small hydrophobic residues (preferably alanine) occupying P3.
Tissue specificity	Found in alveolar macrophages but not in peripheral blood monocytes.
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.
Cellular localization	Secreted > extracellular space > extracellular matrix.
Form	The presence of a 22kDa truncated active form of MMP-12 in vitro as well as in vivo due to the internal autolytic cleavage of the C-terminus.

Images



Western blot - Anti-MMP12 antibody [EP1261Y]
(ab52897)

All lanes : Anti-MMP12 antibody [EP1261Y] (ab52897) at 1/2000 dilution (purified)

Lane 1 : HT-1080 cell lysate

Lane 2 : WI-38 cell lysate

Lysates/proteins at 10 µg per lane.

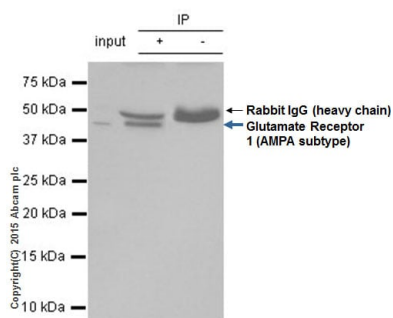
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/1000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 54 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

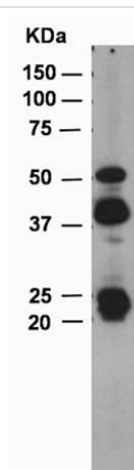


Immunoprecipitation - Anti-MMP12 antibody
[EP1261Y] (ab52897)

ab52897 (purified) at 1/20 immunoprecipitating Glutamate Receptor 1 in HeLa whole cell lysate. 10 ug of cell lysate was present in the input. For western blotting, a HRP-conjugated Veriblot for IP Detection Reagent (**ab131366**) (1/1,500) was used for detection. A rabbit monoclonal IgG (**ab172730**) was used instead of **ab128913** as a negative control (Lane 3).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-MMP12 antibody [EP1261Y]
(ab52897)

Based on Western blot, unpurified ab52897 recognizes both pro and active MMP. The propeptide is 54 kDa, and 45 kDa and 22 kDa are active forms. The primary was used at 1:100 to detect recombinant MMP12 protein, but can be diluted more to decrease the intensity of the bands.

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-MMP12 antibody [EP1261Y] (ab52897)

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

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