

Anti-MMP9 antibody [EP1255Y] ab137867

リコンビナント **RabMAb**

★★★★☆ **6 Abreviews** **102 References** 画像数 6

製品の概要

製品名	Anti-MMP9 antibody [EP1255Y]
製品の詳細	Rabbit monoclonal [EP1255Y] to MMP9
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P 適用なし: Flow Cyt, ICC/IF or IP
種交差性	交差種: Human
免疫原	Synthetic peptide within Human MMP9 (C terminal). The exact sequence is proprietary.
ポジティブ・コントロール	WB: U937, A549 (Human lung carcinoma epithelial cell) serum starved overnight, then treated with 80nM TPA for 24 hours whole cell lysate and MDA-MB-231 (Human breast adenocarcinoma epithelial cell) serum starved overnight, then treated with 200nM TPA for 24 hours whole cell lysate IHC-P: Human tonsil and lymphoma tissues.
特記事項	<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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EP1255Y
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab137867の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

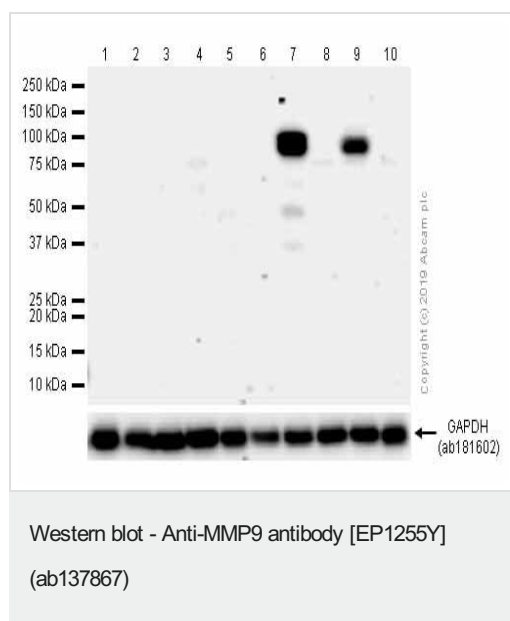
アプリケーション	Abreviews	特記事項
WB	★★★★☆ (5)	1/1000. Predicted molecular weight: 78 kDa.
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> . For unpurified use at 1/800.

追加情報 Is unsuitable for Flow Cyt, ICC/IF or IP.

ターゲット情報

機能	May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration. Could play a role in bone osteoclastic resorption. Cleaves KiSS1 at a Gly-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. Degrades fibronectin but not laminin or Pz-peptide.
組織特異性	Produced by normal alveolar macrophages and granulocytes.
関連疾患	Intervertebral disc disease Metaphyseal anadysplasia 2
配列類似性	Belongs to the peptidase M10A family. Contains 3 fibronectin type-II domains. Contains 4 hemopexin repeats.
ドメイン	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.
翻訳後修飾	Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially processing by MMP3 yields the 82 kDa matrix metalloproteinase-9. N- and O-glycosylated.
細胞内局在	Secreted, extracellular space, extracellular matrix.

画像



All lanes : Anti-MMP9 antibody [EP1255Y] (ab137867) at 1/1000 dilution

Lane 1 : LoVo (Human colorectal adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : Huh7 (Human hepatocellular carcinoma epithelial cell) whole cell lysate

Lane 3 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate

Lane 4 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 5 : Caco-2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate

Lane 6 : A549 (Human lung carcinoma epithelial cell) serum starved overnight whole cell lysate

Lane 7 : A549 (Human lung carcinoma epithelial cell) serum starved overnight, then treated with 80nM TPA for 24 hours whole cell lysate

Lane 8 : MDA-MB-231 (Human breast adenocarcinoma epithelial cell) serum starved overnight whole cell lysate

Lane 9 : MDA-MB-231 (Human breast adenocarcinoma epithelial cell) serum starved overnight, then treated with 200nM TPA for 24 hours whole cell lysate

Lane 10 : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 78 kDa

Observed band size: 84 kDa

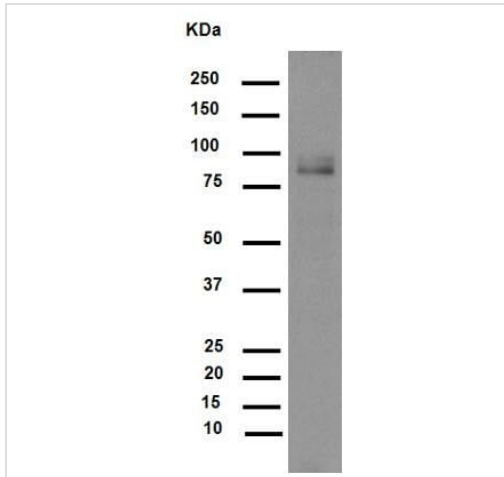
Exposure time: 180 seconds

Blocking buffer and concentration 5% NFDM/TBST

Diluting buffer and concentration 5% NFDM/TBST

The expression of MMP-9 can be stimulated by various agents, such as inflammatory cytokine, growth factor, and 12-O-tetradecanoylphorbol-13-acetate (TPA) (PMID:21047770, 28969043).

Treatment increasing the expression of MMP-9 is recommended when using this antibody.



Western blot - Anti-MMP9 antibody [EP1255Y] (ab137867)

Anti-MMP9 antibody [EP1255Y] (ab137867) at 1/1000 dilution (unpurified) + U937 cell lysate at 10 µg

Secondary

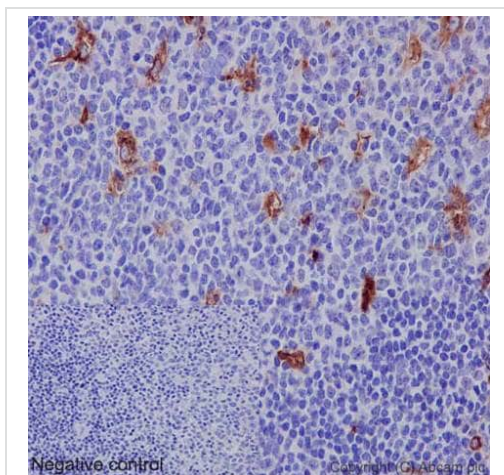
Peroxidase conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 78 kDa

Observed band size: 78 kDa

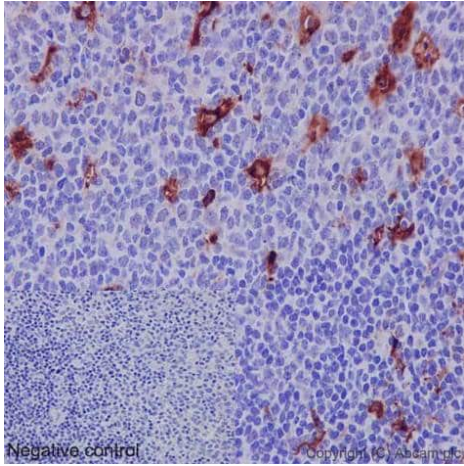
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



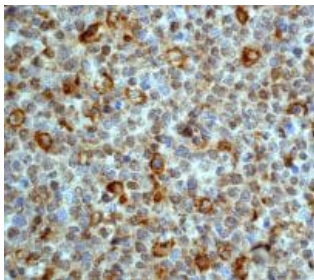
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP9 antibody [EP1255Y] (ab137867)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling MMP9 with unpurified ab137867 at 1/800. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP9 antibody
[EP1255Y] (ab137867)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling MMP9 with purified ab137867 at 1/1000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP9 antibody
[EP1255Y] (ab137867)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lymphoma tissue labelling MMP9 with unpurified ab137867 at 1/100.

Perform heat mediated antigen retrieval with citrate buffer pH 6 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-MMP9 antibody [EP1255Y] (ab137867)

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