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AP06537PU-N Polyclonal Antibody to MMP-10 (351-400) - Aff - Purified

Alternate names: MMP10, Matrix metalloproteinase-10, SL-2, STMY2, Stromelysin-2, Transin-2

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: Proteins of the matrix metalloproteinase (MMP) family are zinc containing proteolytic enzymes involved in the breakdown of the extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling. They also play an important role in apoptosis, tumor cell growth, invasion, metastasis, as well as in angiogenesis and wound healing. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. Most of the MMP's contain a common domain structure, which include a signal sequence, a propeptide, a catalytic domain and a hemopexin-like (Hpx) domain. MMP10 degrades proteoglycans, gelatins of type I, III, IV, and V; weakly collagens III, IV, and V. and fibronectin. It activates procollagenase. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.

Uniprot ID: P09238

NCBI: NP_002416.1

GeneID: 4319

Host: Rabbit

Immunogen: Synthetic peptide, corresponding to amino acids 351-400 of Human MMP-10.

Format:
State: Liquid purified Ig fraction (› 95% pure by SDS-PAGE)
Purification: Affinity Chromatography using epitope-specific immunogen
Buffer System: Phosphate buffered saline (PBS), pH~7.2
Preservatives: 0.05% Sodium Azide

Applications:
Imunofluorescence: 1/50-1/200.
Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Western blotting: 1/500-1/1,000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: ~54 kDa

Specificity: This antibody detects endogenous levels of MMP-10 protein.
(region surrounding Ile387)

Species Reactivity:
Tested: Human.
Expected from sequence similarity: Mouse and Rat.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: One year from despatch.

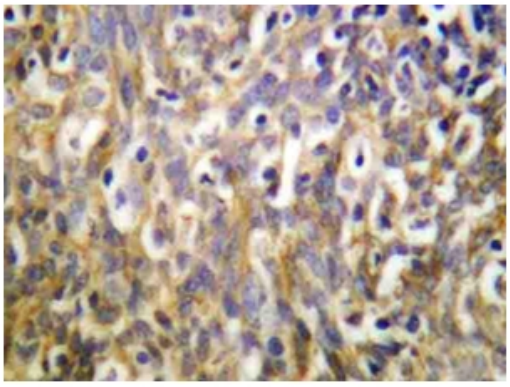
Product Citations:

Originator or purchased from resellers:

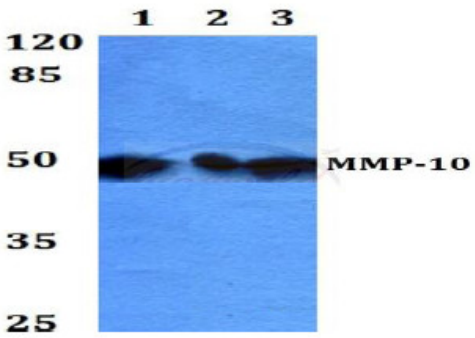
1. Zhang XY, Shen BR, Zhang YC, Wan XJ, Yao QP, Wu GL, et al. Induction of thoracic aortic remodeling by endothelial-specific deletion of microRNA-21 in mice. PLoS One. 2013;8(3):e59002. doi: 10.1371/journal.pone.0059002. Epub 2013 Mar 18. PubMed PMID: 23527070.

Pictures:

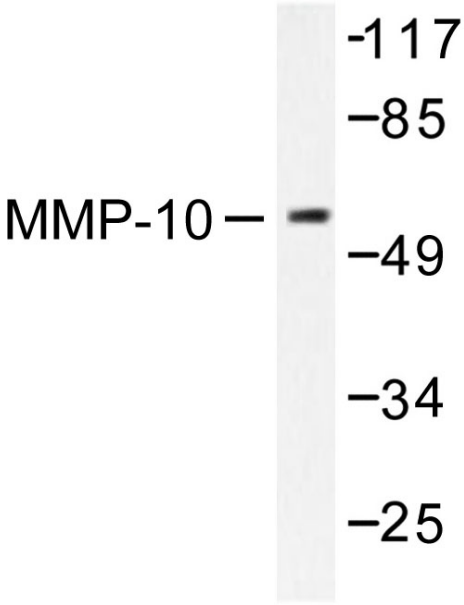
Immunohistochemistry analysis of MMP-10 Antibody (Cat.-No AP06537PU-N) in paraffin-embedded human brain tissue.



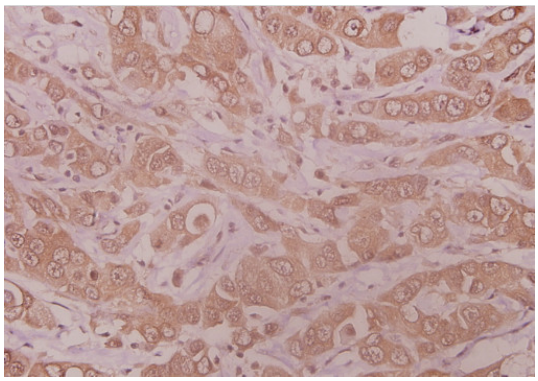
Western blot (WB) analysis of MMP-10 antibody (Cat.-No.: AP06537PU-N) at 1/500 dilution: Lane 1: HEK293T whole cell lysate. Lane 2: Raw264.7 whole cell lysate. Lane 3: H9C2 whole cell lysate.



Western blot (WB) analysis of MMP-10 antibody (Cat.-No.: AP06537PU-N)



Immunohistochemistry analysis of MMP-10 Antibody (Cat.-No AP06537PU-N) in paraffin-embedded human colorectal carcinoma tissue at 1/50.



Immunohistochemistry (IHC) analyzes of MMP-10 (I387) pAb in paraffin-embedded human colorectal carcinoma tissue at 1:50.