

MMP-10 Rabbit Polyclonal Antibody

Catalog #: EAB14271

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Rabbit IgG	Polyclonal	WB, IHC-P, IF/ICC, ELISA	54	Human, Mouse, Rat

Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

WB (Western Blotting)	1:500-2000
IHC-P (Immunohistochemistry-Paraffin)	1:50-300
IF/ICC (Immunofluorescence/Immunocytochemistry)	1:50-300
ELISA (Enzyme-linked Immunosorbent Assay)	1:5000-20000

Product Information

Conjugate	Unconjugate
Specificity	MMP-10 Rabbit Polyclonal Antibody detects endogenous levels of MMP-10 protein.
Purification	Affinity purification
Concentration	1mg/ml
Format	Liquid
Formulation	In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol.
Shipping	Gel Pack
Storage	Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks.
UniProt ID	P09238
Entrez-Gene ID	4319

Product Description

The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, Fibronectin, Laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-10, also known as Stromelysin-2, is expressed in small intestine and at lower levels in lung and heart. MMP-10 functions similarly to MMP-3 in that it can degrade Fibronectin and gelatins type I, III, IV and IV, however its action on collagens III, IV and V is very weak. Significantly, expression of MMP-10 is upregulated in ras-transformed HaCaT II-4 keratinocytes, therefore enabling the cells to undergo epithelial-to-mesenchymal transition. This evidence suggests that MMP-10, as well as other matrix metalloproteinases, may play a significant role in tumor metastasis.

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