

Product datasheet for **TA354742**

MMP13 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the hinge of human MMP13 protein. This sequence is identical among the human, mouse and rat origins.
Formulation:	This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by Epitope Affinity Purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	60 kDa, 48 kDa
Gene Name:	matrix metalloproteinase 13
Database Link:	NP_002418 Entrez Gene 4322 Human P45452



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Background:

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. Unpaired specific MMPs by tissue inhibitor of MMPs (TIMPs) are related in the invasive tumor processes. Interstitial collagenase (MMP-1)(52 kDa), gelatinase A/type IV collagenase (MMP-2) (72 kDa), and gelatinase B/type V collagenase (MMP-9) (92 kDa) dissolve extracellular matrix (ECM) and may initiate and promote angiogenesis. Human collagenase-3 (MMP13) is a recently identified member of the matrix metalloproteinase (MMP) family that is expressed in breast carcinomas and in articular cartilage from arthritic patients. This protein is secreted as a 60 kDa proenzyme and active form of 48 kDa by cleavage.

Synonyms:

CLG3; MANDP1; MDST; MMP-13

Protein Families:

Druggable Genome, Protease

Product images:

WB: The protein derived from the SW1353 whole cell lysate was resolved onto 12% SDS-PAGE, transferred to NC membrane, followed by an immunoblotting with Rabbit anti-MMP-13 at 1:1000.