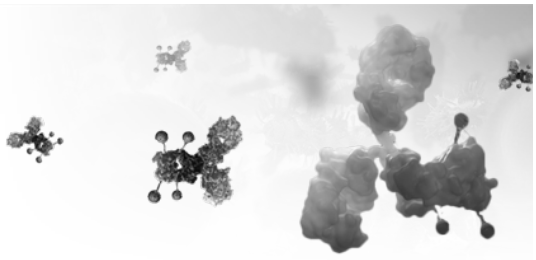

Anti-MMP2 monoclonal antibody, clone TC24b (CABT-21997MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. This gene encodes an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for this gene. Mouse monoclonal antibody raised against recombinant MMP2.
Immunogen	Recombinant protein corresponding to human MMP2.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	TC24b
Conjugate	Unconjugated
Applications	IHC,ELISA
Format	Liquid
Size	100 µg

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Buffer	In 100 mM BBS, pH 8.2
Preservative	None
Storage	Store at 4°C.

GENE INFORMATION

Gene Name	MMP2 matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase) [Homo sapiens]
Official Symbol	MMP2
Synonyms	matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IVcollagenase); matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IVcollagenase); TBE-1; matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IVcollagenase); CLG4A; 72 kDa type IV collagenase; Gelatinase A; CLG4; Matrix metalloproteinase-2; 72 kDa gelatinase; collagenase type IV-A; matrix metalloproteinase-II; EC 3.4.24.24; neutrophil gelatinase; MONA; EC 3.4.24; MMP-II; MMP-2; OTTHUMP00000164261
Entrez Gene ID	4313
Protein Refseq	NP_001121363
UniProt ID	P08253
Chromosome Location	16q13-q21
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Diabetes pathways, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem
Function	metal ion binding; metalloendopeptidase activity; peptidase activity; protein binding; zinc ion binding

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