



Goat Anti-Mouse MMP-9 polyclonal antibody (CABT-L2467)

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

PRODUCT INFORMATION

Specificity	Detects mouse MMP-9 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human (rh) MMP-9 is observed and less than 2% cross-reactivity with rhMMP-1, -2, -3, -7, -8, -10, -12, and -13 is observed.
Target	Mouse MMP 9 protein
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse MMP-9. Ala20-Pro730
Isotype	IgG
Source/Host	Goat
Species Reactivity	Mouse
Purification	Antigen Affinity-purified
Conjugate	Unconjugated
Applications	ELISA, WB, IHC, IP
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS
Format	Lyophilized
Concentration	Lot specific
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose
Preservative	None
Storage	-20°C. Avoid Freeze/Thaw Cycles

BACKGROUND

Introduction	Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-9 (gelatinase B) can degrade a broad range of substrates including gelatin, collagen types IV and V, elastin, and proteoglycan core protein. It is believed to act synergistically with interstitial collagenase (MMP-1) in the degradation of fibrillar collagens as it degrades their denatured gelatin forms. MMP-9 is produced by keratinocytes, monocytes, macrophages, and PMN leukocytes. MMP-9 is present in most cases of inflammatory responses. Structurally, MMP-9 may be divided into five distinct domains: a pro-domain which is cleaved upon activation, a gelatin-binding domain consisting of three contiguous fibronectin type II units, a catalytic domain containing the zinc binding site, a proline-rich linker region, and a carboxyl terminal hemopexin-like domain.
Keywords	92 kDa gelatinase;92 kDa type IV collagenase;CLG4B;EC 3.4.24;EC 3.4.24.35;Gelatinase B;GELB;macrophage gelatinase;MANDP2;matrix metalloproteinase 9;matrix metalloproteinase 9;matrix metalloproteinase-9;MMP9;MMP-9;type V collagenase

GENE INFORMATION

Entrez Gene ID	17395
UniProt ID	P14780