



Human Anti-MMP-9 Monoclonal antibody, clone L51/82R (CABT-L329R)

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

PRODUCT INFORMATION

Specificity	This antibody is specific for the MMP9 protein.
Target	MMP-9
Immunogen	The original version of this antibody was raised by immunizing a mouse with human MMP-9 residues 107– 445. Then the hybridomas were sequenced by addgene and based on the variable domain sequences new recombinant formats were created.
Isotype	IgG1, Kappa
Source/Host	Human
Species Reactivity	Rat, Human, Mouse
Clone	L51/82R
Purification	Protein A affinity purified
Conjugate	unconjugated
Applications	WB, IF, IHC
Format	Liquid
Size	200 µg, 1 mg
Buffer	PBS with 0.02% Proclin 300
Preservative	0.02% Proclin 300
Storage	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

BACKGROUND

Introduction	Matrix metalloproteinase 9 (MMP-9) is also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB), CLG4B, is secreted from neutrophils, macrophages, and a number of transformed cells, and is the most complex family member in terms of domain structure and regulation of its activity. . Structurally, MMP9 maybe be divided into five distinct domains: a prodomain which is cleaved upon activation, a gelatinbinding domain consisting of three contiguous fibronectin type II units, a catalytic domain containing the zinc binding site, a prolinerich linker region, and a carboxyl terminal hemopexinlike domain. This enzyme degrades various substrates including gelatin, collagen types IV and V, and elastin. MMP9 is involved in a variety of autoimmune diseases such as systemic lupus erythematosus, rheumatoid arthritis, and multiple sclerosis, and be regarded as a potential therapeutic target.
Keywords	MMP9; matrix metalloproteinase 9; Matrix metalloproteinase-9; MMP-9; 92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; GELB; L51/82