

Anti-MMP-9 Antibody (5C993)

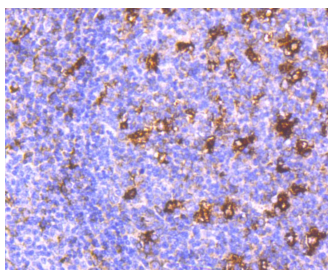
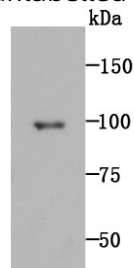
Product Details

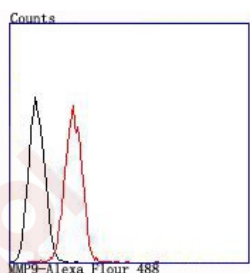
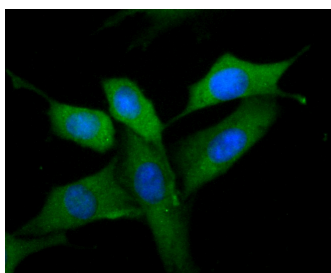
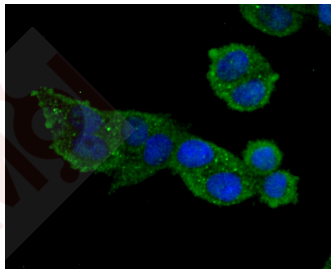
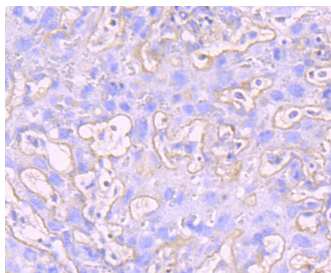
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 100 kDa.
Clone:	5C993
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of MMP9 on rat spleen tissue lysate using anti-MMP9 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-MMP9 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse placenta tissue using anti-MMP9 antibody. Counter stained with hematoxylin.
4. ICC staining MMP9 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining MMP9 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. Flow cytometric analysis of A431 cells with MMP9 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).





Application: FCM, ICC/IF, IHC, WB

Recommended WB: 1:500-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P14780

Synonyms: CLG4B; GELB; MMP-9; MANDP2; Gelatinase B

Research Background

The matrix metalloproteinases (MMPs) are a family of peptidase pathway 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. MMP-9 (also designated 92 kDa type IV collagenase or gelatinase B) has been shown to degrade bone collagens in concert with MMP-1 (also specified interstitial collagenase, fibroblast collagenase or Collagenase-1), and cysteine

proteases and may play a role in bone osteoclastic resorption. MMP-1 is downregulated by p53, and abnormality of p53 expression can contribute to joint degradation in rheumatoid arthritis by regulating MMP-1 expression.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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