

Datasheet for ABIN6940074
anti-MMP 9 antibody (AA 603-614)



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2 Images

Overview

Quantity:	100 µg
Target:	MMP 9 (MMP9)
Binding Specificity:	AA 603-614
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MMP 9 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	A synthetic peptide corresponding to amino acids 603-614 of human MMP-9
Clone:	2C3
Isotype:	IgG1 kappa

Target Details

Target:	MMP 9 (MMP9)
Alternative Name:	MMP9 (MMP9 Products)
Background:	The matrix metalloproteinases (MMP) are a family of peptidase enzymes 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 B (SEB). MMP catalysis requires both

Target Details

calcium and zinc. 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 designated interstitial collagenase, fibroblast collagenase or collagenase-1), and cysteine proteases and may play a role in bone osteoclastic resorption. MMP-1 is down-regulated by p53, and abnormality of p53 expression may contribute to joint degradation in rheumatoid arthritis by regulating MMP-1 expression.

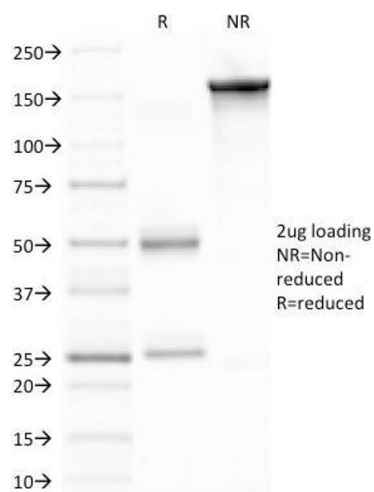
Molecular Weight:	92kDa
Gene ID:	4318
UniProt:	P14780
Pathways:	Cellular Response to Molecule of Bacterial Origin , Positive Regulation of Immune Effector Process , CXCR4-mediated Signaling Events

Application Details

Application Notes:	Positive Control: Human spleen tissue or human heart tissue. U937 cells. Human PBL whole cell lysate. Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

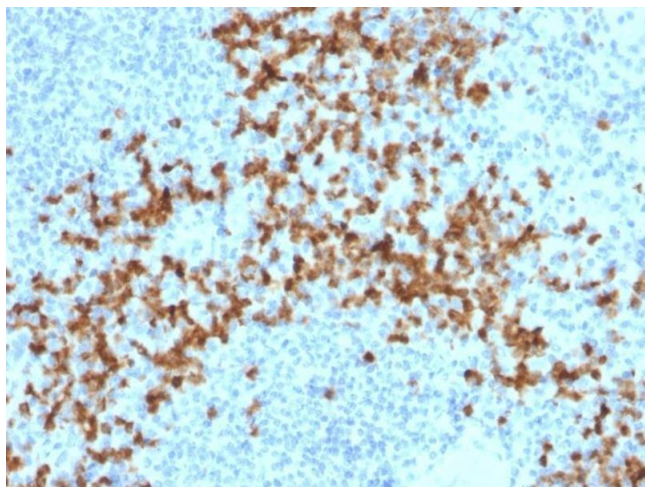
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



SDS-PAGE

Image 1. SDS-PAGE Analysis of Purified MMP9 Mouse Monoclonal Antibody (2C3). Confirmation of Integrity and Purity of Antibody



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Spleen stained with MMP9 Mouse Monoclonal Antibody (2C3).