

CoraLite® Plus 488-conjugated MMP14 / MT1-MMP Polyclonal antibody

Catalog Number: **CL488-14552**

Basic Information

Catalog Number: CL488-14552	GenBank Accession Number: BC064803	Purification Method: Antigen affinity purification
Size: 1000 µg/ml	GeneID (NCBI): 4323	Recommended Dilutions: IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: P50281	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG	Full Name: matrix metalloproteinase 14 (membrane-inserted)	
Immunogen Catalog Number: AG5965	Calculated MW: 66 kDa	
	Observed MW: 66 kDa, 45-50 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: human, mouse, rat	

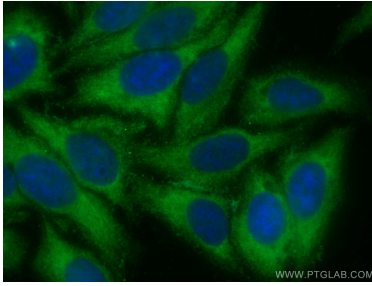
Background Information

MMP14, also named as MT1-MMP, is a key matrix metalloproteinase (MMP) family member which plays a crucial role in tumor growth, invasion and metastasis. MT1-MMP is a cell membrane-bound proteinase, and it enhances degradation of collagen IV, a major component of the basement membrane, by forming a complex with tissue inhibitor of metalloproteinase-2 (TIMP-2) to activate pro-MMP-2. MT1-MMP can influence venous invasion, intrahepatic metastasis, and patient outcome in hepatocellular carcinoma (HCC). MT1-MMP was reported to be present in centromere and could lead to chromosome instability in MDCK cells, indicating that MT1-MMP may have more novel functions in the intracellular compartments. In western blotting, pro-MMP14 (65 kDa) and MMP14 (51 kDa) bands showed with the truncated MMP14 (45, 42, 35, 20 kDa) forms (PMID:12097451).

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol)
fixed HepG2 cells using Coralite® Plus 488 MMP14
/ MT1-MMP antibody (CL488-14552) at dilution of
1:200.