10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MMP15 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6199a

Specification

MMP15 Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P51511
Other Accession	NP_002419
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**75807**
Antigen Region	**165-194**

MMP15 Antibody (N-term) - Additional Information

Gene ID 4324

Other Names
Matrix metalloproteinase-15, MMP-15, 3424-, Membrane-type matrix metalloproteinase 2, MT-MMP 2, MTMMP2, Membrane-type-2 matrix metalloproteinase, MT2-MMP, MT2MMP, SMCP-2, MMP15

Target/Specificity
This MMP15 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 165-194 amino acids from the N-terminal region of human MMP15.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MMP15 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MMP15 Antibody (N-term) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name MMP15

Function Endopeptidase that degrades various components of the extracellular matrix. May activate progelatinase A.

Cellular Location
Membrane; Single-pass type I membrane protein; Extracellular side

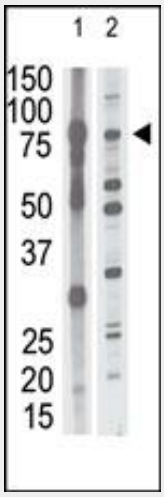
Tissue Location
Appeared to be synthesized preferentially in liver, placenta, testis, colon and intestine. Substantial amounts are also detected in pancreas, kidney, lung, heart and skeletal muscle

MMP15 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

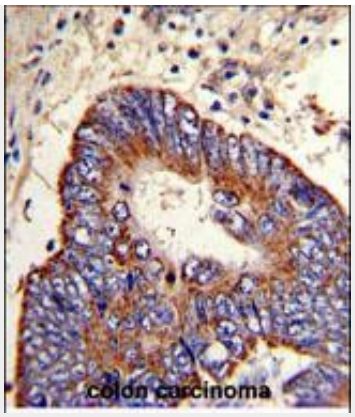
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MMP15 Antibody (N-term) - Images

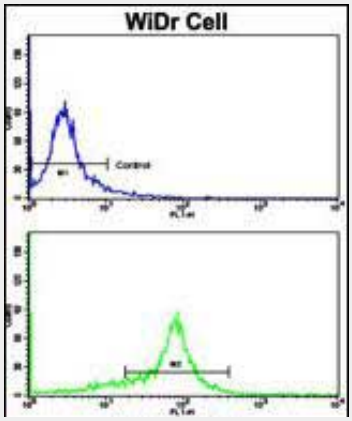


The anti-MMP15 N-term Antibody (Cat.#AP6199a) is used in Western blot to detect MMP15 in mouse brain tissue lysate (lane 1) and HL60 cell lysate (lane 2) lysate.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Formalin-fixed and paraffin-embedded human colon carcinoma with MMP15 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of WiDr cells using MMP15 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MMP15 Antibody (N-term) - Background

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. However, MMP15 is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted.

MMP15 Antibody (N-term) - References

Jung, M., et al., Prostate 55(2):89-98 (2003).
Nagase, H., et al., J. Biol. Chem. 274(31):21491-21494 (1999).
d'Ortho, M.P., et al., Eur. J. Biochem. 250(3):751-757 (1997).
Sato, H., et al., Genomics 39(3):412-413 (1997).
Mattei, M.G., et al., Genomics 40(1):168-169 (1997).