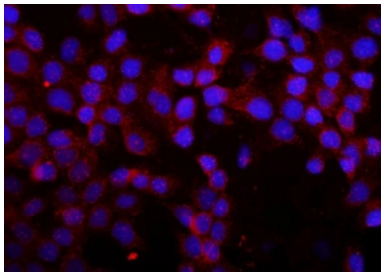
MMP16 Antibody (R32966)

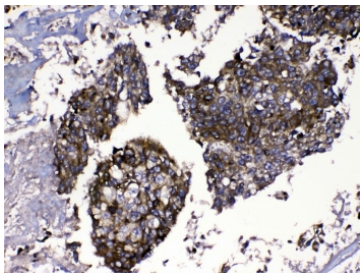
Catalog No.	Formulation	Size
R32966	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

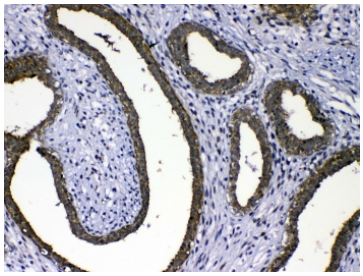
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P51512
Localization	Cytoplasmic, membrane, secreted
Applications	Western Blot: 0.5-1ug/ml IHC (FFPE): 1-2ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA (recombinant human protein): 0.1-0.5ug/ml (BSA-free format available)
Limitations	This MMP16 antibody is available for research use only.



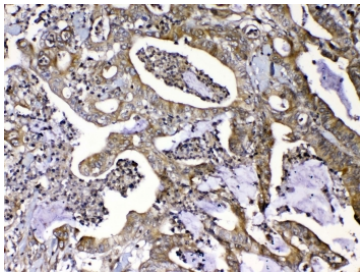
Immunofluorescent staining of FFPE human A431 cells with MMP16 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



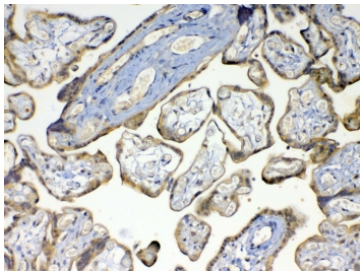
IHC testing of FFPE human lung cancer tissue with MMP16 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



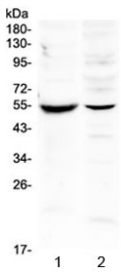
IHC testing of FFPE human breast cancer tissue with MMP16 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



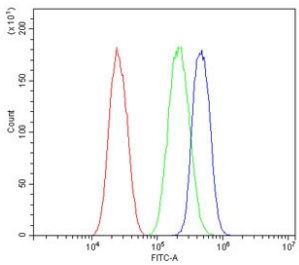
IHC testing of FFPE human colon cancer tissue with MMP16 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE human placental tissue with MMP16 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



Western blot testing of 1) mouse intestine and 2) human SMMC-7721 lysate with MMP16 antibody at 0.5ug/ml. Predicted molecular weight: ~70 kDa (long form), ~53 kDa (short form).



Flow cytometry testing of human Caco-2 cells with MMP16 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MMP16 antibody.

Description

The Matrix metalloproteinase 16 (MMP16) protein consists of 604 amino acids and has a characteristic MMP domain structure, which gene is mapped on human chromosome 8q21. Additionally, MMP16 has a C-terminal extension containing a potential transmembrane domain, similar to MMP14, MMP15, and MMP17. Furthermore, it is membrane-bound and is a member of the membrane-type MMPs that are a subclass in the MMP family since the other members lack a C-terminal transmembrane domain and are secreted as soluble forms.

Application Notes

Optimal dilution of the MMP16 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids Y120-I296 was used as the immunogen for the MMP16 antibody.

Storage

After reconstitution, the MMP16 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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