

Mouse Fap Antibody(N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19697a

Specification

Mouse Fap Antibody(N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	P97321
Other Accession	NP_032012.1
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	15-41

Mouse Fap Antibody(N-term) - Additional Information

Gene ID 14089

Other Names

Prolyl endopeptidase FAP, Fap
{ECO:0000312|MGI:MGI:109608}

Target/Specificity

This Mouse Fap antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-41 amino acids from the N-terminal region of mouse Fap.

Dilution

WB~~1:500
IHC-P~~1:100

Format

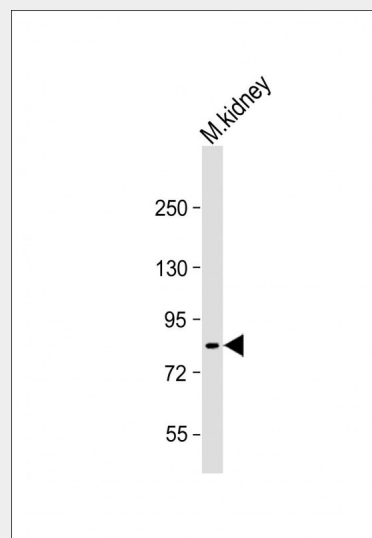
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

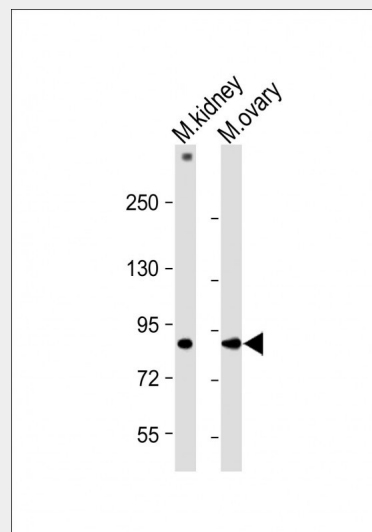
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Fap Antibody(N-term) is for research



Anti-Mouse Fap Antibody(N-term) at 1:2000 dilution + mouse kidney lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 88 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-Mouse Fap Antibody(N-term) at 1:500 dilution
Lane 1: Mouse kidney lysate
Lane 2: Mouse ovary lysate
Lysates/proteins at 20 µg per lane. Secondary Goat

use only and not for use in diagnostic or therapeutic procedures.

Mouse Fap Antibody(N-term) - Protein Information

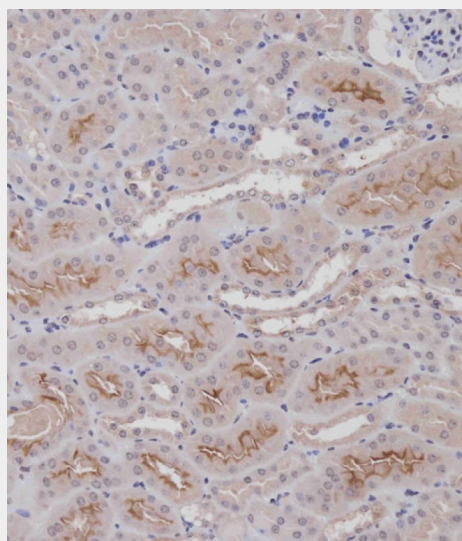
Name Fap

{ECO:0000312|MGI:MGI:109608}

Function

Cell surface glycoprotein serine protease that participates in extracellular matrix degradation and involved in many cellular processes including tissue remodeling, fibrosis, wound healing, inflammation and tumor growth. Both plasma membrane and soluble forms exhibit post-proline cleaving endopeptidase activity, with a marked preference for Ala/Ser-Gly-Pro-Ser/Asn/Ala consensus sequences, on substrate such as alpha-2-antiplasmin SERPINF2 and SPRY2. Degrade also gelatin, heat-denatured type I collagen, but not native collagen type I and IV, vitronectin, tenascin, laminin, fibronectin, fibrin or casein. Also has dipeptidyl peptidase activity, exhibiting the ability to hydrolyze the prolyl bond two residues from the N-terminus of synthetic dipeptide substrates provided that the penultimate residue is proline, with a preference for Ala-Pro, Ile-Pro, Gly-Pro, Arg-Pro and Pro-Pro. Natural neuropeptide hormones for dipeptidyl peptidase are the neuropeptide Y (NPY), peptide YY (PYY), substance P (TAC1) and brain natriuretic peptide 32 (NPPB). The plasma membrane form, in association with either DPP4, PLAUR or integrins, is involved in the pericellular proteolysis of the extracellular matrix (ECM), and hence promotes cell adhesion, migration and invasion through the ECM. Plays a role in tissue remodeling during development and wound healing. Participates in the cell invasiveness towards the ECM in malignant melanoma cancers. Enhances tumor growth progression by increasing angiogenesis, collagen fiber degradation and apoptosis and by reducing antitumor response of the immune system. Promotes glioma cell invasion through the brain parenchyma by degrading the proteoglycan brevican. Acts as a tumor suppressor in melanocytic cells through regulation of cell proliferation and survival in a serine protease activity-independent manner.

Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 88 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of AP19697a on paraffin-embedded Mouse kidney tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

Mouse Fap Antibody(N-term) - Background

In association with DPP4 is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM (By similarity). May have a role in tissue remodeling during development and wound healing, and contribute to invasiveness in malignant cancers.

Mouse Fap Antibody(N-term) - References

Wen, Y., et al. Cancer Sci. 101(11):2325-2332(2010)
Santos, A.M., et al. J. Clin. Invest. 119(12):3613-3625(2009)
Kennedy, A., et al. Int. J. Cancer 124(1):27-35(2009)
Hughes, D.S., et al. BMC Dev. Biol. 9, 30 (2009)
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Cellular Location

[Prolyl endopeptidase FAP]: Cell surface.
Cell membrane
{ECO:0000250|UniProtKB:Q12884};
Single-pass type II membrane protein. Cell
projection, lamellipodium membrane
{ECO:0000250|UniProtKB:Q12884};
Single-pass type II membrane protein. Cell
projection, invadopodium membrane
{ECO:0000250|UniProtKB:Q12884};
Single-pass type II membrane protein. Cell
projection, ruffle membrane
{ECO:0000250|UniProtKB:Q12884};
Single-pass type II membrane protein.
Membrane
{ECO:0000250|UniProtKB:Q12884};
Single-pass type II membrane protein.
Note=Localized on cell surface with
lamellipodia and invadopodia membranes
and on shed vesicles Colocalized with DPP4
at invadopodia and lamellipodia
membranes of migratory activated
endothelial cells in collagenous matrix
Colocalized with DPP4 on endothelial cells
of capillary-like microvessels but not large
vessels within invasive breast ductal
carcinoma. Anchored and enriched
preferentially by integrin alpha- 3/beta-1 at
invadopodia, plasma membrane protrusions
that correspond to sites of cell invasion, in a
collagen-dependent manner. Localized at
plasma and ruffle membranes in a
collagen-independent manner Colocalized
with PLAUR preferentially at the cell surface
of invadopodia membranes in a
cytoskeleton-, integrin- and vitronectin-
dependent manner. Concentrated at
invadopodia membranes, specialized
protrusions of the ventral plasma
membrane in a fibroectin-dependent
manner. Colocalizes with extracellular
components (ECM), such as collagen fibers
and fibronectin.
{ECO:0000250|UniProtKB:Q12884}

Tissue Location

Expressed strongly in uterus, pancreas,
submaxillary gland and skin, less in lymph
node, ovary, skeletal muscle, adrenal and
bone marrow. Expressed in reactive stromal
fibroblast in epithelial cancers. Expressed in
melanocytes but not melanomas (at protein
level). Detected in fibroblasts, in placenta,
uterus, embryos from day 7-19 and in
newborn mice (P1)

Cheng, J.D., et al. Mol. Cancer Ther.
4(3):351-360(2005)

Mouse Fap 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 Cytometry](#)
- [Cell Culture](#)