

Rabbit anti-Human, Mouse MFAP1 Polyclonal Antibody | anti-MFAP1 antibody

Anti-MFAP1 Antibody Picoband

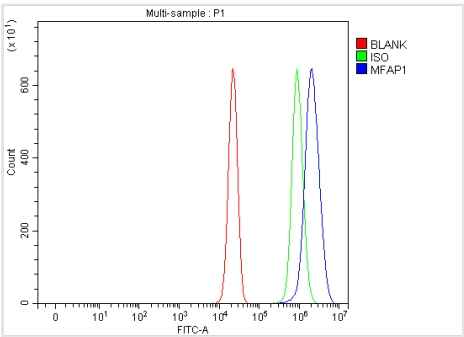
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127612	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

MFAP1; Polyclonal Antibody; Anti-MFAP1 Antibody Picoband; interleukin 36; alpha; Interleukin-36 alpha; FIL1 epsilon; Interleukin-1 epsilon; IL-1 epsilon; Interleukin-1 family member 6; IL-1F6; IL36A; FIL1E; IL1E; IL1F6; anti-MFAP1 antibody

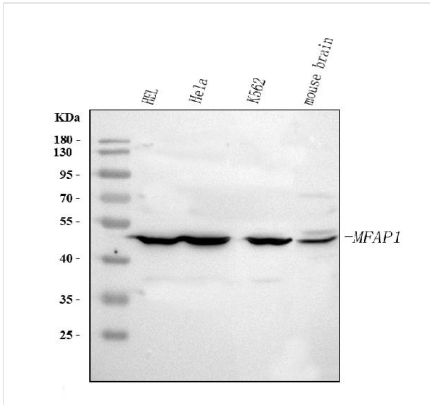
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in immune system and fetal brain, but not in other tissues tested or in multiple hematopoietic cell lines. Predominantly expressed in skin keratinocytes but not in fibroblasts, endothelial cells or melanocytes. Increased in lesional psoriasis skin.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-MFAP1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human MFAP1 recombinant protein (Position: D83-K437).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Cytokine that binds to and signals through the IL1RL2/IL-36R receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells linked to a pro-inflammatory response. Part of the IL-36 signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory response; similar to the IL-1 system with which it shares the coreceptor IL1RAP. Seems to be involved in skin inflammatory response by acting on keratinocytes, dendritic cells and inly on T-cells to drive tissue infiltration, cell maturation and cell proliferation. In cultured keratinocytes induces the expression of macrophage, T-cell, and neutrophil chemokines, such as CCL3, CCL4, CCL5, CCL2, CCL17, CCL22, CL20, CCL5, CCL2, CCL17, CCL22, CXCL8, CCL20 and CXCL1, and the production of proinflammatory cytokines such as TNF-alpha, IL-8 and IL-6. In cultured monocytes upregulates expression of IL-1A, IL-1B and IL-6. In myeloid dendritic cells involved in cell maturation by upregulating surface expression of CD83, CD86 and HLA-DR. In monocyte-derived dendritic cells facilitates dendritic cell maturation and drives T-cell proliferation. May play a role in proinflammatory effects in the lung.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



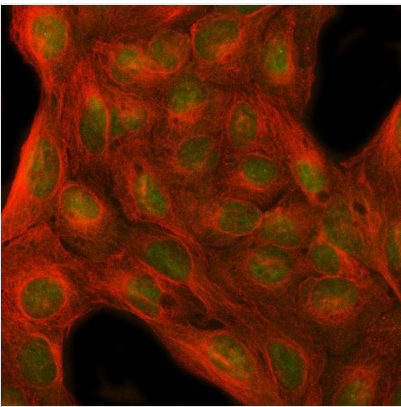
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of A431 cells using anti-MFAP1 antibody (AAA127612).Overlay histogram showing A431 cells stained with AAA127612 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MFAP1 Antibody (AAA127612, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of MFAP1 using anti-MFAP1 antibody (AAA127612).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HEL whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human K562 whole cell lysates,Lane 4: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MFAP1 antigen affinity purified polyclonal antibody (#AAA127612) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MFAP1 at approximately 50 kDa. The expected band size for MFAP1 is at 50 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of MFAP1 using anti-MFAP1 antibody (AAA127612) and anti-Beta Tubulin antibody (M01857-3).MFAP1 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-MFAP1 Antibody (AAA127612) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG and Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-MFAP1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MFAP1 antibody	Primary Antibodies; Cytokines; Immunology; Innate Immunity; Interleukins

References	1. Horrigan, S. K., Rich, C. B., Streeten, B. W., Li, Z.-Y., Foster, J. A. Characterization of an associated microfibril protein through recombinant DNA techniques. J. Biol. Chem. 267: 10087-10095, 1992. 2. Kittler, R., Putz, G., Pelletier, L., Poser, I., Heninger, A.-K., Drechsel, D., Fischer, S., Konstantinova, I., Habermann, B., Grabner, H., Yaspo, M.-L., Himmelbauer, H., Korn, B., Neugebauer, K., Pisabarro, M. T., Buchholz, F. An endoribonuclease-prepared siRNA screen in human cells identifies genes essential for cell division. Nature 432: 1036-1040, 2004. 3. Liu, W., Faraco, J., Qian, C., Francke, U. The gene for microfibril-associated protein-1 (MFAP1) is located several megabases centromeric to FBN1 and is not mutated in Marfan syndrome. Hum. Genet. 99: 578-584, 1997.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50726968
NCBI GeneID	4236
NCBI Accession #	NP_005917.2
NCBI GenBank Nucleotide #	NM_005926.2
UniProt Accession #	P55081; Q86TG6
Molecular Weight	51,958 Da
NCBI Official Full Name	microfibrillar-associated protein 1
NCBI Official Synonym Full Names	microfibrillar-associated protein 1
NCBI Official Symbol	MFAP1
NCBI Protein Information	microfibrillar-associated protein 1
UniProt Protein Name	Microfibrillar-associated protein 1
UniProt Gene Name	MFAP1
UniProt Entry Name	MFAP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.