

Rabbit anti-Human MFSD12 Polyclonal Antibody | anti-MFSD12 antibody

Anti-MFSD12 Antibody Picoband

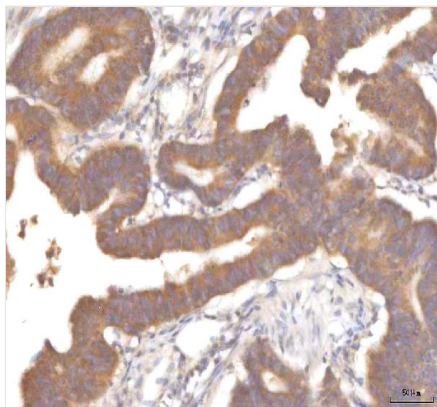
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127900	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

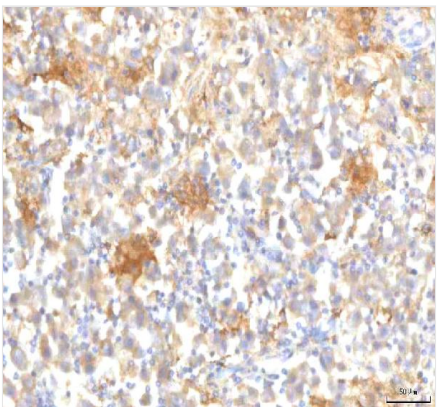
MFSD12; Polyclonal Antibody; Anti-MFSD12 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-MFSD12 antibody

PRODUCT SPECIFICATIONS

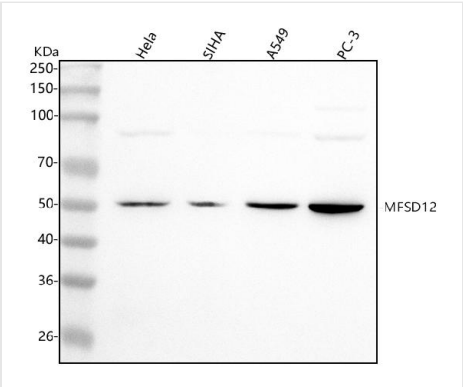
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-MFSD12 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human MFSD12 recombinant protein (Position: Q66-H443). Human MFSD12 shares 86.8% amino acid (aa) sequence identity with mouse MFSD12.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of MFSD12 using anti-MFSD12 antibody (AAA127900).MFSD12 was detected in a paraffin-embedded section of human colon adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MFSD12 Antibody (AAA127900) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of MFSD12 using anti-MFSD12 antibody (AAA127900).MFSD12 was detected in a paraffin-embedded section of human testicular seminoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MFSD12 Antibody (AAA127900) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of MFSD12 using anti-MFSD12 antibody (AAA127900).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 HeLa whole cell lysates,Lane 2: human SiHa whole cell lysates,Lane 3: human A549 whole cell lysates,Lane 4: human PC-3 whole cell 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-MFSD12 antigen affinity purified polyclonal antibody (#AAA127900) 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 MFSD12 at approximately 52 kDa. The expected band size for MFSD12 is at 52 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MFSD12 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-MFSD12 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins

References	1. Crawford, N. G., Kelly, D. E., Hansen, M. E. B., Beltrame, M. H., Fan, S., Bowman, S. L., Jewett, E., Ranciaro, A., Thompson, S., Lo, Y., Pfeifer, S. P., Jensen, J. D., and 36 others. Loci associated with skin pigmentation identified in African populations. <i>Science</i> 358: eaan8433, 2017. Note: Electronic Article. Erratum: <i>Science</i> 367: eaba7178, 2020. 2. Gross, M. B. Personal Communication. Baltimore, Md. 10/26/2017.3. Hedan, B., Cadieu, E., Botherel, N., Dufaure de Citres, C., Letko, A., Rimbault, M., Drogemuller, C., Jagannathan, V., Derrien, T., Schmutz, S., Leeb, T., Andre, C. Identification of a missense variant in MFSD12 involved in dilution of phaeomelanin leading to white or cream coat color in dogs. <i>Genes (Basel)</i> 10: E386, 2019. Note: Electronic Article.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	566559967
NCBI GeneID	126321
NCBI Accession #	NP_001274458.1
NCBI GenBank Nucleotide #	NM_001287529.1
UniProt Accession #	Q6NUT3 ; Q8N459 ; A8MXP7 ; D6W615 ; E9PAJ8
Molecular Weight	52,075 Da
NCBI Official Full Name	major facilitator superfamily domain-containing protein 12 isoform d
NCBI Official Synonym Full Names	major facilitator superfamily domain containing 12
NCBI Official Symbol	MFSD12
NCBI Official Synonym Symbols	PP3501; C19orf28
NCBI Protein Information	major facilitator superfamily domain-containing protein 12
UniProt Protein Name	Major facilitator superfamily domain-containing protein 12
UniProt Gene Name	MFSD12
UniProt Synonym Gene Names	C19orf28
UniProt Entry Name	MFS12_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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/mfsd12-antibody-immunohistochemistry-western-blot-elisa/127900>