

Rabbit anti-Human MKS1 Polyclonal Antibody | anti-MKS1 antibody

MKS1 Antibody (N-Term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290902	Rabbit	Human	ELISA, Western Blot, Flow Cytometry, Functional Assay, Immunofluorescence

PRODUCT SYNONYMS

MKS1; Polyclonal Antibody; MKS1 Antibody (N-Term); Purified Rabbit Polyclonal Antibody (Pab); Meckel syndrome type 1 protein; anti-MKS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Ig
Specificity	This MKS1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 90-124 amino acids from the human region of human MKS1.
Purity/Purification	Purified through a protein A column, followed by peptide affinity purification.
Form/Format	Supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	549
Applicable Applications for anti-MKS1 antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry), IF (Immunofluorescence)
Antigen Type	Synthesized Peptide
Antigen Source	Human
Cellular Location	Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Localizes at the transition zone, a region between the basal body and the ciliary axoneme.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

All lanes : Anti-MKS1 Antibody (N-Term) at 1:2000 dilution
Lane 1: Human kidney lysate
Lane 2: Human lung lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 65 kDa
Blocking/Dilution buffer: 5% NFD/MTBST.



FCM/FACS (Flow Cytometry)

Overlay histogram showing HepG2 cells stained with AP22330a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22330a, 1:25 dilution) for 60 min at 37 degree C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight 488 Conjugated Highly Cross-Adsorbed (OE188374) at 1/200 dilution for 40 min at 37 degree C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.



IF (Immunofluorescence)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized HepG2 (human liver hepatocellular carcinoma cell line) cells labeling Pdx1 with AP22330a at 1/25 dilution, followed by Dylight 488-conjugated goat anti-rabbit IgG (NK179883) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on HepG2 cell line. Cytoplasmic actin is detected with Dylight 554 Phalloidin (PD18466410) at 1/100 dilution (red). The nuclear counter stain is DAPI (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-MKS1 antibody	Component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Involved in centrosome migration to the apical cell surface during early ciliogenesis. Required for ciliary structure and function, including a role in regulating length and appropriate number through modulating centrosome duplication. Required for cell branching morphology.
Product Categories/Family for anti-MKS1 antibody	Primary Antibodies
References	Kyttaelae M.,et al.Nat. Genet. 38:155-157(2006). Ota T.,et al.Nat. Genet. 36:40-45(2004). Zody M.C.,et al.Nature 440:1045-1049(2006). Ebert L.,et al. Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases. Dawe H.R.,et al.Hum. Mol. Genet. 16:173-186(2007).

NCBI AND UNIPROT INFORMATION

NCBI GI #	260064077
NCBI GeneID	54903
NCBI Accession #	NP_001159399.1
NCBI GenBank Nucleotide #	NM_001165927.1
UniProt Accession #	Q9NXB0; Q284T0; Q96G13; B7WNX4; F5H885
Molecular Weight	64528
NCBI Official Full Name	Meckel syndrome type 1 protein isoform 2
NCBI Official Synonym Full Names	Meckel syndrome, type 1
NCBI Official Symbol	MKS1
NCBI Official Synonym Symbols	MES; MKS; BBS13; POC12; JBTS28
NCBI Protein Information	Meckel syndrome type 1 protein
UniProt Protein Name	Meckel syndrome type 1 protein
UniProt Gene Name	MKS1

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://stage.aaabiotech.com/polyclonal/mks1-antibody-western-blot-flow-cytometry-immunofluorescence-elisa/290902>