For Research Use Only

MKS1 Polyclonal antibody

Catalog Number:16206-1-AP 28 Publications

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Basic Information

Catalog Number:
16206-1-AP

Size:
650 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9177

GenBank Accession Number:
BC010061

GeneID (NCBI):
54903

UNIPROT ID:
Q9NXB0

Full Name:
Meckel syndrome, type 1

Calculated MW:
559 aa, 65 kDa

Observed MW:
65-70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:20-1:200

Applications

Tested Applications:
WB, IP, IF, IHC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, HEK-293 cells, HeLa cells, mouse uterus tissue, SH-SY5Y cells

IP : HEK-293 cells,

IHC : human liver cancer tissue,

IF : hTERT-RPE1 cells and Mouse embryonic fibroblasts,

Background Information

MKS1 (Meckel syndrome type 1 protein) is a 559-amino acid protein that contains a conserved B9 domain. It is a component of a large protein complex which localizes to the ciliary transition zone and regulates mammalian ciliogenesis and ciliary membrane composition (PMID: 21725307). MKS1 is required for ciliary structure and function, and is involved in centrosome migration to the apical cell surface during early ciliogenesis (PMID: 17185389; 19515853). Broad tissue expression of the MKS1 gene has been reported (PMID: 16415886). Defects in MKS1 are the cause of Meckel syndrome type 1 (MKS1), an autosomal recessive lethal malformation syndrome characterized by renal cystic dysplasia, central nervous system malformations, and hepatic developmental defects (PMID: 16415886). In addition, defects in MKS1 are also the cause of Bardet-Biedl syndrome type 13 (BBS13) (PMID: 18327255).

Notable Publications

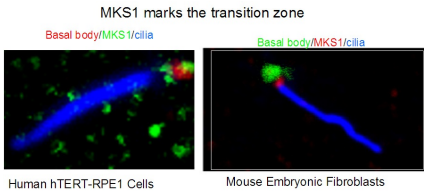
Author	Pubmed ID	Journal	Application
T Tony Yang	26365165	Sci Rep	IF
Yunfan Yang	25342559	Cell Res	WB
Gisela G Slaats	26490104	J Med Genet	WB, IF

Storage

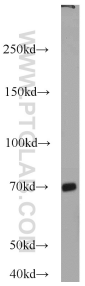
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

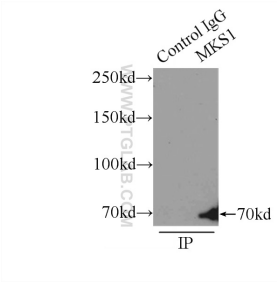
Selected Validation Data



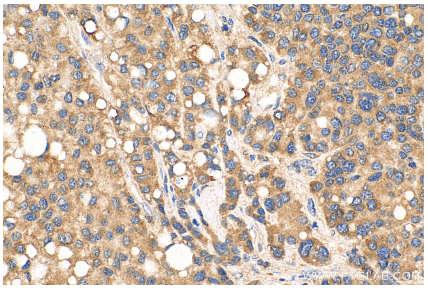
IF result from Dr. Corbit, Kevin. anti-MKS1 (16206-1-AP) marks the transition zone of Human hTERT-RPE1 cells and Mouse embryonic fibroblasts.



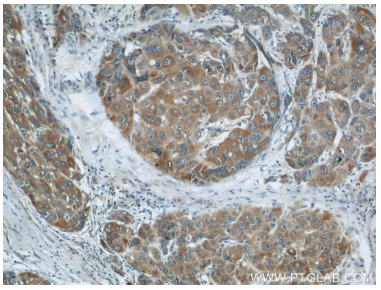
mouse brain tissue were subjected to SDS PAGE followed by western blot with 16206-1-AP (MKS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



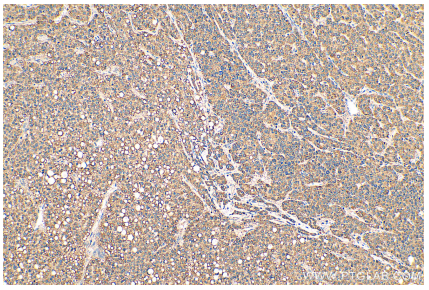
IP result of anti-MKS1 (IP:16206-1-AP, 3ug; Detection:16206-1-AP 1:1000) with HEK-293 cells lysate 4500ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16206-1-AP (MKS1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer using 16206-1-AP (MKS1 antibody) at dilution of 1:50 (under 10x lens).



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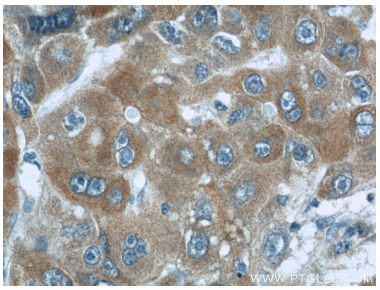

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