

For Research Use Only

HOOK1 Polyclonal antibody

Catalog Number: 10871-1-AP

3 Publications



Basic Information

Catalog Number:

10871-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1311

GenBank Accession Number:

BC011621

GeneID (NCBI):

51361

UNIPROT ID:

Q9UJC3

Full Name:

hook homolog 1 (Drosophila)

Calculated MW:

85 kDa

Observed MW:

85 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

mouse

Positive Controls:

WB : HEK-293 cells, human brain tissue

IP : mouse brain tissue,

IHC : human colon cancer tissue,

IF/ICC : HEK-293 cells,

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

Background Information

HOOK1, an orthologue of the Drosophila Hook protein, is a member of the microtubule-binding HOOK family of cytosolic coiled-coil proteins (HOOK1, HOOK2, HOOK3). These proteins contain conserved N-terminal domains, which attach to microtubules, and more divergent C-terminal domains, which mediate binding to organelles. HOOK1 is required for spermatid differentiation. It is probably involved in the positioning of the microtubules of the manchette and the flagellum in relation to the membrane skeleton. HOOK1 is a component of the FTS/Hook/FHIP complex which functions to promote vesicle trafficking and/or fusion via the HOPS (homotypic vesicular protein sorting) complex.

Notable Publications

Author	Pubmed ID	Journal	Application
Emma A Hall	24415959	PLoS Genet	IHC
Simon Schneider	38013430	Elife	IF
Zhou Jing J	19091768	Development	WB

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

*** 20ul sizes contain 0.1% BSA

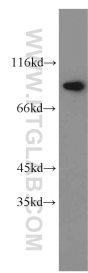
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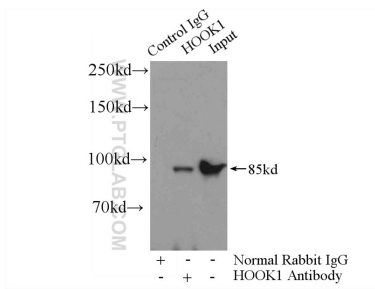
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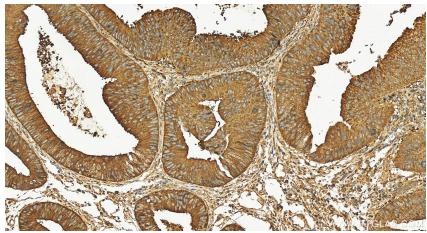
Selected Validation Data



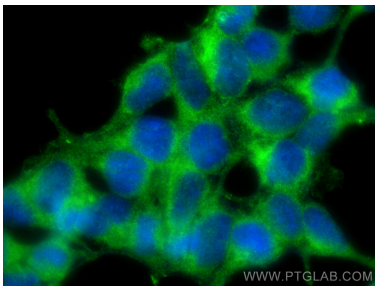
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10871-1-AP (HOOK1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-HOOK1 (IP:10871-1-AP, 4ug; Detection:10871-1-AP 1:500) with mouse brain tissue lysate 4680ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10871-1-AP (HOOK1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using HOOK1 antibody (10871-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).