

For Research Use Only

# HOOK1 Polyclonal antibody

Catalog Number: 10871-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 10871-1-AP	<b>GenBank Accession Number:</b> BC011621	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 51361	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> hook homolog 1 (Drosophila)	<b>IHC 1:20-1:200</b> <b>IF 1:10-1:100</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 85 kDa	
<b>Immunogen Catalog Number:</b> AG1311	<b>Observed MW:</b> 85 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, human brain tissue
<b>Cited Applications:</b> IHC, WB	<b>IP :</b> mouse brain tissue,
<b>Species Specificity:</b> human, mouse	<b>IHC :</b> human colon cancer tissue,
<b>Cited Species:</b> mouse	<b>IF :</b> 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
Zhou Jing J	19091768	Development	WB

## Storage

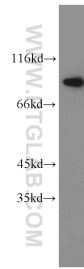
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

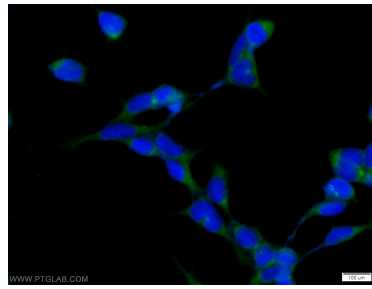
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

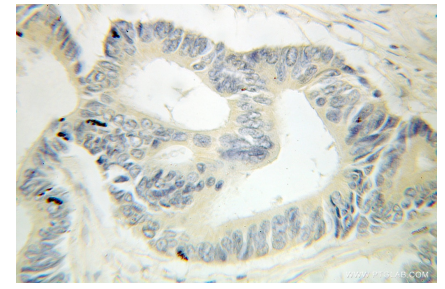
## Selected Validation Data



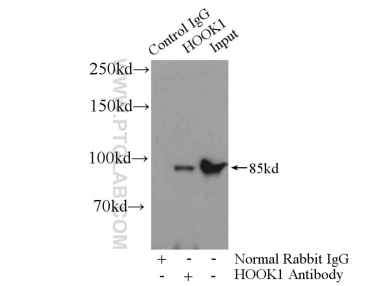
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10871-1-AP (HOOK1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HEK-293 cells using 10871-1-AP (HOOK1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 10871-1-AP (HOOK1 antibody) at dilution of 1:100 (under 10x lens).



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