

For Research Use Only

KIF5B Polyclonal antibody

Catalog Number: 21632-1-AP

Featured Product

21 Publications



Basic Information

Catalog Number: 21632-1-AP	GenBank Accession Number: BC126279	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 800 µg/ml by Nanodrop;	GeneID (NCBI): 3799	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB
Source: Rabbit	Full Name: kinesin family member 5B	IHC 1:20-1:200
Isotype: IgG	Calculated MW: 963 aa, 110 kDa	IF 1:200-1:800
Immunogen Catalog Number: AG16250	Observed MW: 110-120 kDa	

Applications

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

Cited Applications:
CoIP, IF, IHC, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse, monkey, pig

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: A549 cells, HeLa cells, HepG2 cells, Jurkat cells, mouse brain, mouse heart, rat brain

IP: HepG2 cells,

IHC: human kidney tissue, human skin tissue

IF: HepG2 cells,

Background Information

KIF5B, also known as KINH, KNS1, belongs to the Kinesin-1 family. KIF5B contains three structural domains: a globular N-terminal motor domain, a central alpha-helical rod domain, and a globular C-terminal domain. During the G2 phase of the cell cycle in a BICD2-dependent manner, KIF5B antagonizes the dynein function and drives the separation of nuclei and centrosomes (PMID: 20386726). KIF5B drives the polarization of cytoplasmic granules and microtubule-organizing centers (MTOCs) toward the immune synapse between effector NK lymphocytes and target cells (KIF5B:24088571).

Notable Publications

Author	Pubmed ID	Journal	Application
Isabelle Munoz	27810912	J Cell Biol	WB,IF
Yushi Katsuyama	36243587	J Dermatol Sci	WB
Yiyuan Kang	34772551	J Hazard Mater	IP

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

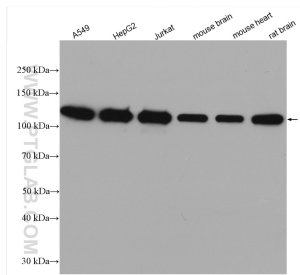
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

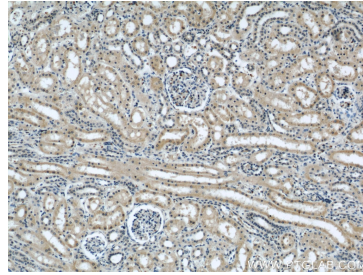
E: proteintech@ptglab.com
W: ptglab.com

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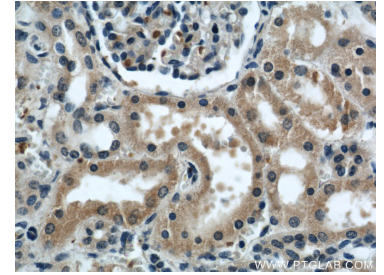
Selected Validation Data



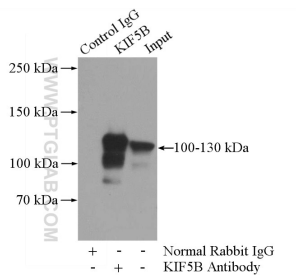
Various lysates were subjected to SDS PAGE followed by western blot with 21632-1-AP (KIF5B antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



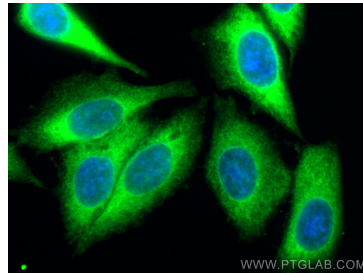
Immunohistochemical analysis of paraffin-embedded human kidney using 21632-1-AP (KIF5B antibody) at dilution of 1:100 (under 10x lens).



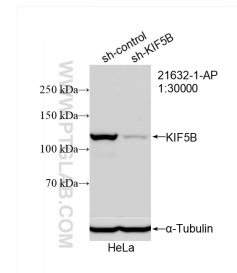
Immunohistochemical analysis of paraffin-embedded human kidney using 21632-1-AP (KIF5B antibody) at dilution of 1:100 (under 40x lens).



IP Result of anti-KIF5B (IP:21632-1-AP, 5ug; Detection:21632-1-AP 1:2000) with HepG2 cells lysate 3600ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using KIF5B antibody (21632-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of KIF5B antibody (21632-1-AP; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-KIF5B transfected HeLa cells.