

For Research Use Only

KIF5C Polyclonal antibody

Catalog Number: 25897-1-AP **8 Publications**



Basic Information

Catalog Number: 25897-1-AP	GenBank Accession Number: BC110287	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 1500 µg/ml by Nanodrop and 787 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3800	Recommended Dilutions: WB 1:1000-1:8000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: kinesin family member 5C	IHC 1:50-1:500
Isotype: IgG	Calculated MW: 725 aa, 83 kDa	IF 1:10-1:100
Immunogen Catalog Number: AG23163	Observed MW: 70 kDa, 110 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB: mouse brain tissue, rat brain tissue IP: mouse brain tissue, IHC: mouse brain tissue, IF: SH-SY5Y cells,
Cited Applications: CoIP, IHC, WB	
Species Specificity: human, rat, mouse	
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	

Background Information

KIF5C (Kinesin heavy chain isoform 5C variant) which belongs to the kinesin-like protein family is neuron specific. The kinesin-1 subfamilies (kif5a, kif5b, kif5c) are responsible for the movement of mitochondria in neurons. Kinesins have N-terminal motor domains and C-terminal cargo-binding tail domains separated by hinge regions. The hinge and C-terminal tail regions of Kif5a, Kif5b, and Kif5c bound a large detergent-resistant RNase-sensitive granule. The granule localized to dendrites and underwent bidirectional movement. Distally directed movement of the granule was enhanced by Kif5 overexpression and reduced by Kif5 functional blockage. Kinesins may transport RNA in dendrites via this large granule. Two major isoforms of kif5c, with molecular predicted masses of 80 and 110 kDa, are generated by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Tien-Chun Yang	32277753	Hum Mol Genet	WB
Qi Wang	30923004	Neurobiol Dis	WB
Xu-Qiao Chen	33691783	Alzheimers Res Ther	WB

Storage

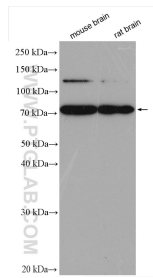
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

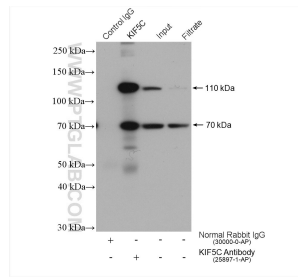
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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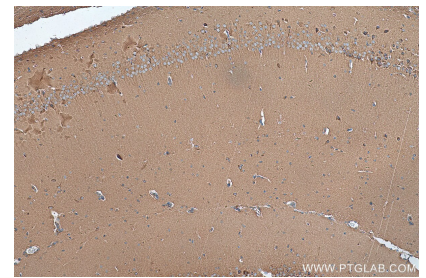
Selected Validation Data



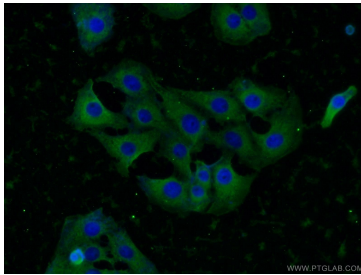
mouse brain tissue were subjected to SDS PAGE followed by western blot with 25897-1-AP (KIF5C antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-KIF5C(IP:25897-1-AP, 4ug; Detection:25897-1-AP 1:800) with mouse brain tissue lysate 2080 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25897-1-AP (KIF5C antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of SH-SY5Y cells using 25897-1-AP (KIF5C antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).