

For Research Use Only

KIF5C Polyclonal antibody

Catalog Number: 25897-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

25897-1-AP

Size:

1500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG23163

GenBank Accession Number:

BC110287

GeneID (NCBI):

3800

UNIPROT ID:

O60282

Full Name:

kinesin family member 5C

Calculated MW:

725 aa, 83 kDa

Observed MW:

70 kDa, 110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue,

IF/ICC : HeLa cells, SH-SY5Y 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

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

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

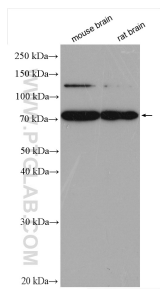
T: 4006900926

E: Proteintech-CN@ptglab.com

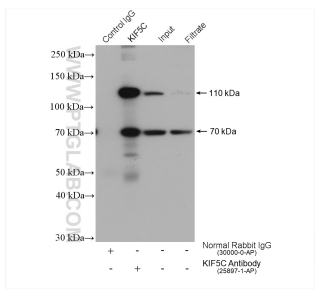
W: ptgcn.com

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Selected Validation Data



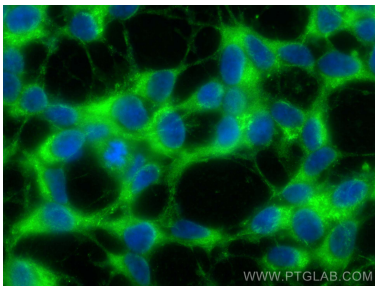
mouse brain tissue were subjected to SDS PAGE followed by western blot with 25897-1-AP (KIF5C antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



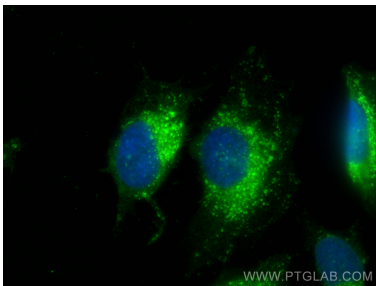
IP result of anti-KIF5C (IP:25897-1-AP, 4ug; Detection:25897-1-AP 1:800) with mouse brain tissue lysate 2080 ug.



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 (-20°C Ethanol) fixed SH-SY5Y cells using KIF5C antibody (25897-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using KIF5C antibody (25897-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).