

For Research Use Only

# KIF5A Polyclonal antibody

Catalog Number: 21186-1-AP

Featured Product

9 Publications



## Basic Information

<b>Catalog Number:</b> 21186-1-AP	<b>GenBank Accession Number:</b> BC146670	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3798	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IP 0.5-4.0 µg for IP and 1:1000-1:4000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> kinesin family member 5A	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 1032 aa, 117 kDa	
<b>Immunogen Catalog Number:</b> AG15518	<b>Observed MW:</b> 118-120 kDa	

## Applications

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

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

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, mouse

**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:** mouse brain tissue, rat brain tissue

**IP:** mouse brain tissue,

**IHC:** mouse brain tissue, human brain tissue

## Background Information

Kinesin superfamily proteins (KIFs) are microtubule-based molecular motors essential for the intracellular transport of various cargos, including organelles, proteins, and RNAs. KIF5A is expressed exclusively in neurons and transports neuronal cargoes into axons and dendrites. KIF5A mutations have been associated with Charcot-Marie-Tooth Type 2, an axonal peripheral neuropathy characterized by progressive loss of peripheral sensation and muscle wasting.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tien-Chun Yang	32277753	Hum Mol Genet	WB
Qi Wang	30923004	Neurobiol Dis	WB,IF
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

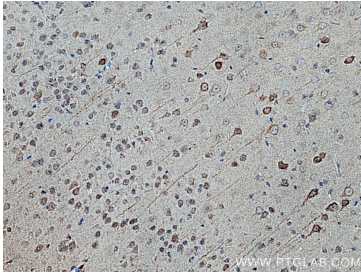
For technical support and original validation data for this product please contact:

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

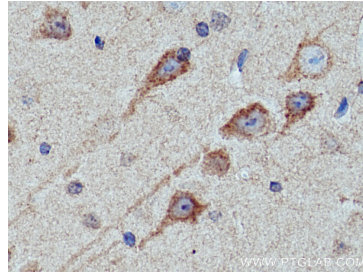
E: proteintech@ptglab.com  
W: ptglab.com

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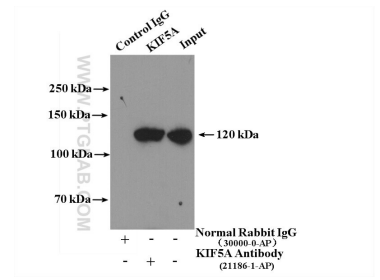
## Selected Validation Data



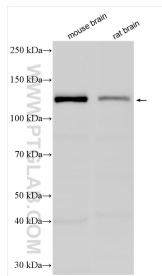
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21186-1-AP (KIF5A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21186-1-AP (KIF5A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-KIF5A (IP:21186-1-AP, 4ug; Detection:21186-1-AP 1:2000) with mouse brain tissue lysate 4000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 21186-1-AP (KIF5A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.