

Product Datasheet

Kinesin 5B Antibody NBP2-21667

Unit Size: 0.1 ml

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NBP2-21667

Kinesin 5B Antibody

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	Serum
Purity	Delipidation and Defibrination
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

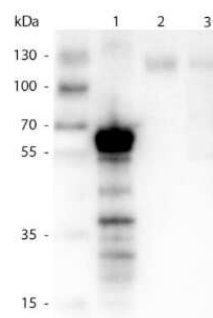
Product Description	
Description	<p>The product was prepared from monospecific antiserum by delipidation and defibrination</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Rabbit
Gene ID	3799
Gene Symbol	KIF5B
Species	Human
Reactivity Notes	A BLAST analysis was used to suggest reactivity with human. Cross-reactivity with kinesin 1 from other sources have not been determined.
Immunogen	Kinesin 5B Antibody was prepared from whole rabbit serum produced by repeated immunizations with a truncated kinesin-1 construct expressed in E. coli corresponding to human Kinesin 5B protein. (Uniprot: P33176)

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, SDS-Page
Recommended Dilutions	Western Blot 1:100-1:500, ELISA 1:10000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, SDS-Page
Application Notes	<p>This product has been tested for use in SDS, western blot, and immunohistochemistry. For western blots expect a band of approximately 72 kDa in size corresponding to truncated kinesin-1 protein. Specific conditions for reactivity should be optimized by the end user.</p> <p>Use in ICC/IF was reported in scientific literature (PMID: 30429451).</p>

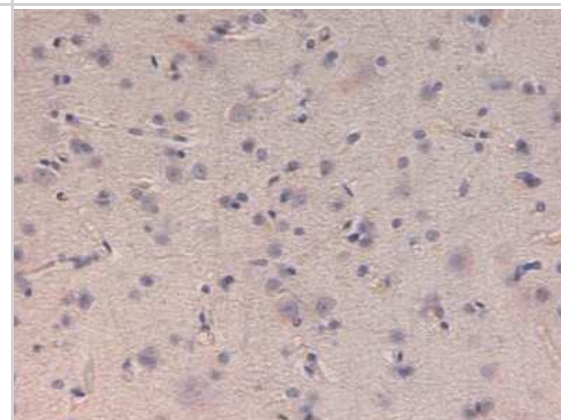


Images

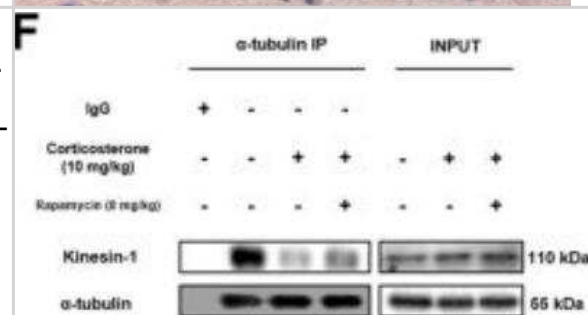
Western Blot: Kinesin 5B Antibody [NBP2-21667] - Western Blot of Kinesin 5B antibody. Lane 1: 500 ng of truncated kinesin 1 protein. Lane 2: 20 ug of Mouse Brain lysate. Lane 3: 10 ug of Mouse Brain lysate. Primary antibody: kinesin1 antibody at 1:1000 for overnight at 4C. Secondary antibody: IRDye800(TM) rabbit secondary antibody at 1:40,000 for 1hr at RT. Block: 5% BLOTTO 1 hr at RT. Predicted/Observed size: 72 kDa, ~70 kDa for Kinesin 5B. Other band (s): degradation.



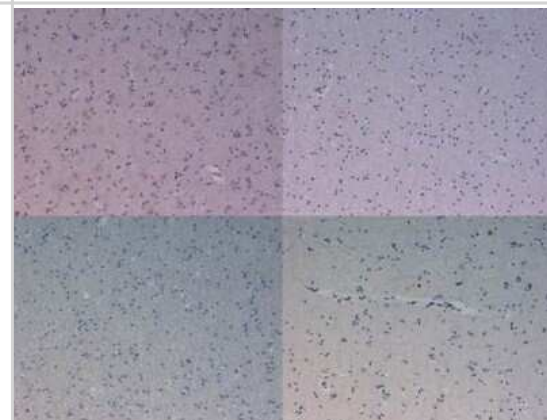
Immunohistochemistry: Kinesin 5B Antibody [NBP2-21667] - Immunohistochemistry of Kinesin 5B antibody. Tissue: Human Brain at 40X at pH 6.



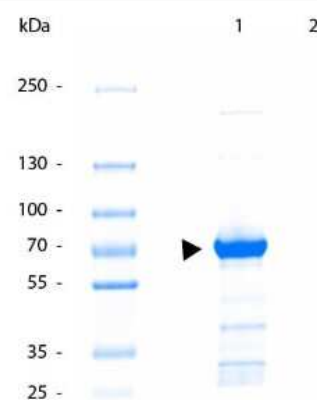
Western Blot: Kinesin 5B Antibody [NBP2-21667] - Glucocorticoid promoted microtubule destabilization and following transport impairment. The hippocampus of mice exposed to rapamycin (8 mg/kg) for 2 days before corticosterone (10 mg/kg) for 24 h was collected and lysed. alpha-tubulin was co-immunoprecipitated with an anti-kinesin-1 antibody (the left side). Expression of kinesin-1 and alpha-tubulin in total cell lysates is shown in the right side. ** indicates $p < 0.01$ vs. vehicle. # indicates $p < 0.05$ vs. corticosterone alone. $n = 4$. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41419-018-1172-y>) licensed under a CC-BY license.



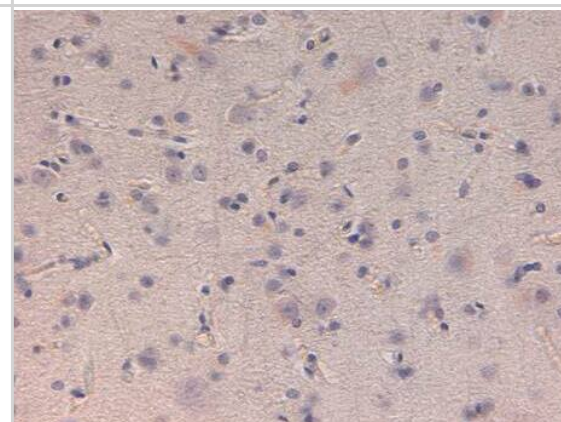
Immunohistochemistry: Kinesin 5B Antibody [NBP2-21667] - 40X in human brain at pH 6. Tissue: Human Brain.



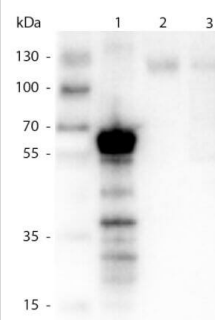
SDS-Page: Kinesin 5B Antibody [NBP2-21667] - SDS-PAGE of Kinesin 5B antibody. Lane 1: Truncated Kinesin-1 Protein. Lane 2: none. Load: 5 ug per lane. Block: coomassie blue for 20 min, destain overnight at RT. Predicted/Observed size: 72 kDa, 72kDa for Kinesin 5B. Other band(s): degradation.



Immunohistochemistry of Rabbit anti-Kinesin-1. Tissue: Human Brain at 40X at pH 6.



Western Blot of Rabbit anti-Kinesin 5B Antibody. Lane 1: 500 ng of truncated kinesin 1 protein. Lane 2: 20 ug of Mouse Brain lysate. Lane 3: 10 ug of Mouse Brain lysate. Primary antibody: kinesin1 antibody at 1:1000 for overnight at 4C. Secondary antibody: IRDye800(TM) rabbit secondary antibody at 1:40,000 for 1hr at RT. Block: 5% BLOTTO 1 hr at RT. Predicted/Observed size: 72 kDa, ~70 kDa for kinesin-1. Other band(s): degradation.



Publications

Choi GE, Oh JY, Lee HJ et al. Glucocorticoid-mediated ER-mitochondria contacts reduce AMPA receptor and mitochondria trafficking into cell terminus via microtubule destabilization Cell Death Dis. 2018-11-13 [PMID: 30429451] (ICC/IF, WB, Human)



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Products Related to NBP2-21667

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-58450PEP	Kinesin 5B Recombinant Protein Antigen
NBP2-58451PEP	Kinesin 5B Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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