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Datasheet for ABIN184774
anti-KIF5B antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	KIF5B
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This KIF5B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Purpose:	Kinesin 1 / UKHC
Immunogen:	Peptide with sequence C-QPVAVRGGGGKQV, from the C Terminus of the protein sequence according to NP_004512.1.
Sequence:	QPVAVRGGGG KQV
Isotype:	IgG
Cross-Reactivity:	Cow, Dog, Human, Mouse, Rat
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Grade:	Verified

Target Details

Target:	KIF5B
Alternative Name:	KIF5B (KIF5B Products)
Background:	KIF5B, UKHC, kinesin 1 (110-120kD), kinesin family member 5B, KNS, KINH, KNS1, U-KHC, kinesin heavy chain
Gene ID:	3799
NCBI Accession:	NP_004512
Pathways:	Peptide Hormone Metabolism , Ribonucleoprotein Complex Subunit Organization

Application Details

Application Notes:	Western Blot: Approx 110 kDa band observed in lysates of the cell lines Jurkat and HeLa (calculated MW of 110 kDa according to NP_004512.1). Recommended concentration: 0.5-1.5 µg/mL. Primary incubation was 1 hour. This antibody has been successfully used in Peptide ELISA: antibody detection limit dilution 1:8000.
Comment:	Additional validation: This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371. Immunofluorescence: This antibody has been successfully used in IF on Human: Connell et al. (20
Restrictions:	For Research Use only

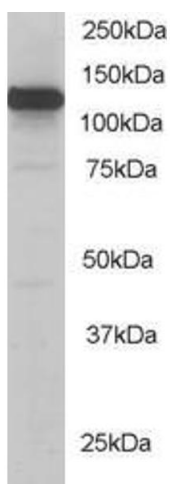
Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

Publications

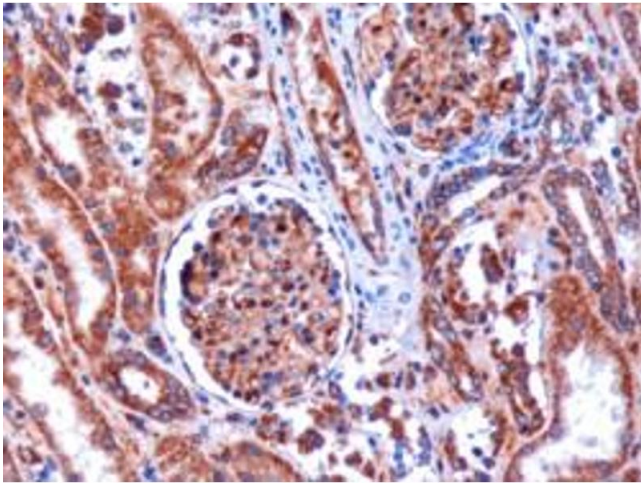
- Product cited in: Connell, Allison, Rodger, Pearson, Zlamalova, Reid: "ESCRT-III-associated proteins and spastin inhibit protrudin-dependent polarised membrane traffic." in: **Cellular and molecular life sciences : CMLS**, Vol. 77, Issue 13, pp. 2641-2658, (2020) ([PubMed](#)).
- Robinson, Evans, Briggs, Ramalho, Hume: "Inefficient recruitment of kinesin-1 to melanosomes precludes it from facilitating their transport." in: **Journal of cell science**, Vol. 130, Issue 12, pp. 2056-2065, (2018) ([PubMed](#)).
- Yasuda, Clatterbuck-Soper, Jackrel, Shorter, Mili: "FUS inclusions disrupt RNA localization by sequestering kinesin-1 and inhibiting microtubule detyrosination." in: **The Journal of cell biology**, Vol. 216, Issue 4, pp. 1015-1034, (2017) ([PubMed](#)).
- Astanina, Jacob: "KIF5C, a kinesin motor involved in apical trafficking of MDCK cells." in: **Cellular and molecular life sciences : CMLS**, Vol. 67, Issue 8, pp. 1331-42, (2010) ([PubMed](#)).
- Gupta, Palmer, Spence, Hudson, Stephens: "Kinesin-1 (uKHC/KIF5B) is required for bidirectional motility of ER exit sites and efficient ER-to-Golgi transport." in: **Traffic (Copenhagen, Denmark)**, Vol. 9, Issue 11, pp. 1850-66, (2008) ([PubMed](#)).

Images



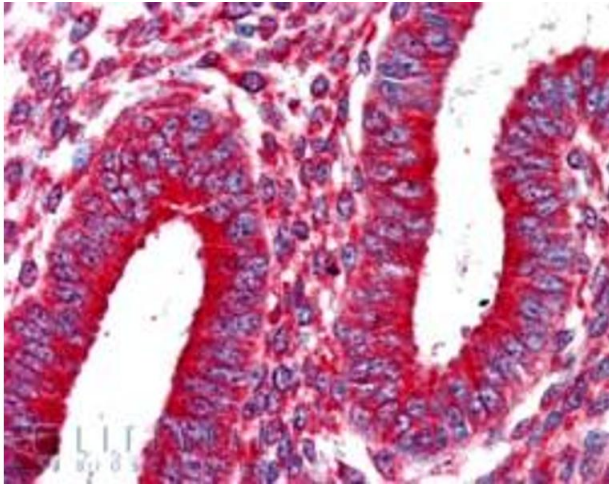
Western Blotting

Image 1. ABIN184774 staining (0.2µg/ml) of Human Kidney lysate (RIPA buffer, 35µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



Immunohistochemistry

Image 2. ABIN184774 (1µg/ml) staining of paraffin embedded Human Kidney. Microwaved antigen retrieval with Tris/EDTA buffer pH9, HRP-staining. This data is from a previous batch, not on sale.



Immunohistochemistry

Image 3. ABIN184774 (2.5µg/ml) staining of paraffin embedded Human Uterus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. This data is from a previous batch, not on sale.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN184774.