

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB05492 - Goat Anti-Kinesin 1 / UKHC Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** KIF5B, UKHC, kinesin 1 (110-120kD), kinesin family member 5B, KNS, KINH, KNS1, U-KHC, kinesin heavy chain

**Official Symbol:** KIF5B

**Accession Number(s):** NP\_004512.1

**Human GeneID(s):** [3799](#)

### Immunogen

Peptide with sequence C-QPVAVRGGGGKQV, from the C Terminus of the protein sequence according to NP\_004512.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:8000.

**Western blot:** Approx 110kDa band observed in lysates of the cell lines Jurkat and HeLa (calculated MW of 110kDa according to NP\_004512.1). Recommended concentration: 0.5-1.5µg/ml.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow

### Specific References

**This antibody has been successfully used in Western blot in Mouse:**

Robinson CL, Evans RD, Briggs DA, Ramalho JS, Hume AN.

Deficiency in kinesin-1 recruitment to melanosomes precludes it from facilitating their centrifugal transport.

J Cell Sci. 2017 May 10. pii: jcs.186064.

PMID: 28490438

**This antibody has been successfully used in IF in Rat:**

Diefenbach RJ, Davis A, Miranda-Saksena M, Fernandez MA, Kelly BJ, Jones CA, LaVail JH, Xue J, Lai J, Cunningham AL

The Basic Domain of Herpes Simplex Virus 1 pUS9 Recruits Kinesin- 1 To Facilitate Egress from Neurons

J Virol. 2015 Dec 9;90(4):2102-11

PMID: 26656703

**This antibody has been successfully used in the following paper:**

Astanina K, Jacob R.

KIF5C, a kinesin motor involved in apical trafficking of MDCK cells.

Cell Mol Life Sci. 2010 Apr;67(8):1331-42.

PMID: 20094756

**This antibody has been successfully used in IF in Human:**

Gupta V, Palmer KJ, Spence P, Hudson A, Stephens DJ.

Kinesin-1 (uKHC/KIF5B) is required for bidirectional motility of ER exit sites and efficient ER-to-Golgi transport.

Traffic. 2008 Nov;9(11):1850-66.

PMID: 18817524

EB05492 (0.03µg/ml) staining of lysates of cell line HeLa (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

EB05492 (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.**

EB05492 (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.**