

## Rabbit KIF1B Polyclonal Antibody | anti-KIF1B antibody

Phospho-KIF1B (Ser1487) Antibody

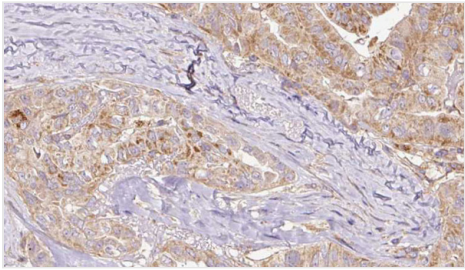
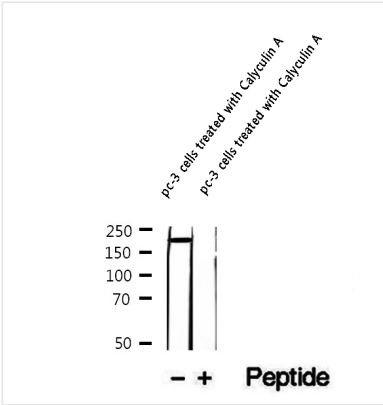
|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA321341</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

### PRODUCT SYNONYMS

KIF1B; Polyclonal Antibody; Phospho-KIF1B (Ser1487) Antibody; Charcot Marie Tooth neuropathy 2A; CMT 2; CMT 2A; CMT 2A1; CMT2 A; CMT2 A1; CMT2; CMT2A 1; CMT2A; CMT2A1; D4Mil1e; HMSN II; HMSNII; hereditary motor sensory neuropathy II; KIF 1B; KIF1 B; KIF1B p130; KIF1B p204; KIF1Bp130; KIF1Bp204; kinesin family member 1B; Kinesin like protein KIF1B; Klp; anti-KIF1B antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                         | IgG                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                     | Phospho-KIF1B (Ser1487) antibody detects endogenous levels of KIF1B.                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification                             | From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.                                                                                                                                                                                                                                                                  |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                            |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence Length                                 | 1770                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applicable Applications for anti-KIF1B antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen                                       | A synthesized peptide derived from human KIF1B around the phosphorylation site of Ser1487.                                                                                                                                                                                                                                                                                                               |
| Subcellular Location                            | Cytoplasmic and Mitochondrial                                                                                                                                                                                                                                                                                                                                                                            |
| Tissue Specificity                              | Isoform 3 is abundant in the skeletal muscle. It is also expressed in fetal brain, lung and kidney, and adult heart, placenta, testis, ovary and small intestine. Isoform 2 is abundant in the brain and also expressed in fetal heart, lung, liver and kidney, and adult skeletal muscle, placenta, liver, kidney, heart, spleen, thymus, prostate, testis, ovary, small intestine, colon and pancreas. |
| Predicted Cross Reactivity                      | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog</b>                                                                                                                                                                                                                                                                                                                                                            |
| Similarity                                      | Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)                                                                                                                                                                                                                                                                                                                         |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                             |
| Epitope                                         | Phospho Ser1487                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                                                                        |



**IHC (Immunohistochemistry)**  
AAA321341 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**  
Western blot analysis of extracts of pc-3 cells treated with Calyculin A, using Phospho-KIF1B (Ser1487) Antibody.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Related Product Information for anti-KIF1B antibody | Function: Motor for anterograde transport of mitochondria. Has a microtubule plus end-directed motility. Isoform 2 is required for induction of neuronal apoptosis.<br>Subunit Structure: Interacts (via C-terminus end of the kinesin-motor domain) with CHP1; the interaction occurs in a calcium-dependent manner (By similarity). Interacts with KBP.<br>Similarity: Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Kinesin family. Unc-104 subfamily. |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| NCBI GI #                        | 41393563                                                                       |
| NCBI GeneID                      | 23095                                                                          |
| NCBI Accession #                 | NP_055889.2                                                                    |
| NCBI GenBank Nucleotide #        | NM_015074.3                                                                    |
| UniProt Accession #              | O60333; Q4VXC3; Q4VXC4; Q4VXC5; Q4VXC6; Q96Q94; Q9BV80; Q9P280; A6NFS8; A6NKQ4 |
| Molecular Weight                 | Observed: 140; 200 kDa<br>Predicted: 205 kDa                                   |
| NCBI Official Full Name          | kinesin-like protein KIF1B isoform b                                           |
| NCBI Official Synonym Full Names | kinesin family member 1B                                                       |
| NCBI Official Symbol             | KIF1B                                                                          |
| NCBI Official Synonym Symbols    | KLP; CMT2; CMT2A; CMT2A1; HMSNII; NBLST1                                       |
| NCBI Protein Information         | kinesin-like protein KIF1B                                                     |
| UniProt Protein Name             | Kinesin-like protein KIF1B                                                     |
| UniProt Gene Name                | KIF1B                                                                          |
| UniProt Synonym Gene Names       | KIAA0591; KIAA1448; Klp                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.