

KIF25 (C-12): sc-107664

BACKGROUND

The Kinesins constitute a large family of microtubule-dependent motor proteins, which are responsible for the distribution of numerous organelles, vesicles and macromolecular complexes throughout the cell. Individual Kinesin members play crucial roles in cell division, intracellular transport and membrane trafficking events including endocytosis and transcytosis. KIF25 (Kinesin family member 25), also designated Kinesin-like protein 3 (KNL3) is a 384 amino acid protein that contains one N-terminal Kinesin-motor domain, which is responsible for the ATP-dependent movement of KIF25 across microtubules. The gene encoding KIF25 produces alternatively spliced transcripts, which are ubiquitously expressed.

REFERENCES

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3. Brady, S.T., 1995. A Kinesin medley: biochemical and functional heterogeneity. *Trends Cell Biol.* 5: 159-164.
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5. Okamoto, S., Matsushima, M. and Nakamura, Y. 1998. Identification, genomic organization, and alternative splicing of KNSL3, a novel human gene encoding a Kinesin-like protein. *Cytogenet. Cell Genet.* 83: 25-29.
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CHROMOSOMAL LOCATION

Genetic locus: KIF25 (human) mapping to 6q27.

SOURCE

KIF25 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of KIF25 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107664 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

KIF25 (C-12) is recommended for detection of KIF25 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other KIF family members.

Suitable for use as control antibody for KIF25 siRNA (h): sc-95243, KIF25 shRNA Plasmid (h): sc-95243-SH and KIF25 shRNA (h) Lentiviral Particles: sc-95243-V.

Molecular Weight of KIF25: 41/35 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.