

## KIF7 (3F8): sc-517550

### BACKGROUND

The kinesins constitute a large family of microtubule-dependent motor proteins that 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. KIF7 (kinesin family member 7) is a 1,343 amino acid protein expressed in embryonic stem cells, melanotic melanoma and Jurkat T-cells. KIF7 is a member of the KIF27 subfamily of the kinesin-like protein family and contains one kinesin-motor domain. It is suggested that KIF7 may participate in the Hedgehog (Hh) signaling pathway by regulating the proteolysis and stability of Gli transcription factors. Hedgehog (Hh) signaling plays a critical role in embryonic development.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: KIF7 (human) mapping to 15q26.1; Kif7 (mouse) mapping to 7 D3.

### SOURCE

KIF7 (3F8) is a mouse monoclonal antibody raised against KIF7 proteins of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### APPLICATIONS

KIF7 (3F8) is recommended for detection of Kif 7 of mouse, rat and human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for KIF7 siRNA (h): sc-89962, KIF7 shRNA Plasmid (h): sc-89962-SH and KIF7 shRNA (h) Lentiviral Particles: sc-89962-V.

Molecular Weight of KIF7: 151 kDa.

### STORAGE

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

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.