**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. KIF18A (kinesin family member 18A), also designated MS-KIF18A, is a 888 amino acid protein that contains one kinesin-motor domain, which is responsible for the ATP-dependent movement of KIF18A across microtubules. KIF18A plays a role in chromosome congression by reducing the amplitude of pre-anaphase oscillations and slowing poleward movement during anaphase, thus suppressing chromosome movements. Expression of KIF18A is induced by estrogen.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Kif18a (mouse) mapping to 2 E3.

**SOURCE**

KIF18A (B-11) is a mouse monoclonal antibody raised against amino acids 499-620 mapping within an internal region of KIF18A of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

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

**APPLICATIONS**

KIF18A (B-11) is recommended for detection of KIF18A of mouse origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:300).

Suitable for use as control antibody for KIF18A siRNA (m): sc-146467, KIF18A shRNA Plasmid (m): sc-146467-SH and KIF18A shRNA (m) Lentiviral Particles: sc-146467-V.

Molecular Weight of KIF18A: 100 kDa.

Positive Controls: WEHI-231 whole cell lysate: sc-2213, MM-142 cell lysate: sc-2246 or RAW 264.7 whole cell lysate: sc-2211.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

KIF18A (B-11): sc-398484. Western blot analysis of KIF18A expression in WEHI-231 (A), MM-142 (B) and RAW 264.7 (C) whole cell lysates.

**RESEARCH USE**

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

**PROTOCOLS**

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