KIF18A (Q-13): sc-109949



The Power to Question

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 898 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 preanaphase oscillations and slowing poleward movement during anaphase, thus suppressing chromosome movements. Expression of KIF18A is induced by estrogen.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KIF18A (human) mapping to 11p14.1; Kif18a (mouse) mapping to 2 E3.

SOURCE

KIF18A (Q-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KIF18A of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-109949 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KIF18A (Q-13) is recommended for detection of KIF18A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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 1:30-1:3000); non cross-reactive with other KIF family members.

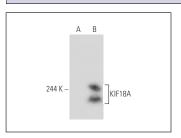
KIF18A (Q-13) is also recommended for detection of KIF18A in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for KIF18A siRNA (h): sc-96629, KIF18A siRNA (m): sc-146467, KIF18A shRNA Plasmid (h): sc-96629-SH, KIF18A shRNA Plasmid (m): sc-146467-SH, KIF18A shRNA (h) Lentiviral Particles: sc-96629-V and KIF18A shRNA (m) Lentiviral Particles: sc-146467-V.

Molecular Weight of KIF18A: 100 kDa.

Positive Controls: KIF18A (h2): 293T Lysate: sc-128930.

DATA



KIF18A (Q-13): sc-109949. Western blot analysis of KIF18A expression in non-transfected: sc-117752 (A) and human KIF18A transfected: sc-128930 (B) 293T whole cell lysates.

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 or our catalog for detailed protocols and support products.



Try KIF18A (C-12): sc-390600 or KIF18A (B-11): sc-398484, our highly recommended monoclonal alternatives to KIF18A (O-13).

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