

KIF4A polyclonal antibody

Catalog: BS5774

Host: Rabbit

Reactivity: Human, Mouse

Background:

The kinesin superfamily proteins (KIFs) are microtubule-dependent molecular motors that transport membranous organelles and protein complexes in a microtubule- and ATP-dependent manner. Cells use KIFs to tightly control the direction, destination and speed of transportation of a variety of important functional molecules, including mRNA. KIF4A functions as an essential chromosome-associated molecular motor involved in faithful chromosome segregation. It is found in the nucleoplasm during interphase and on condensed chromosome arms during mitosis. KIF4A accumulates in the mid-zone during late anaphase and on the cytokinetic ring during cytokinesis. KIF4 binds to and translocates PRC1, a spindle mid-zone-associated cyclin-dependent kinase that plays a role in cytokinesis. KIF4A may also interact with the condensin I and II complexes. Loss of KIF4A leads to chromosome hypercondensation, suggesting that it is necessary for retaining normal chromosome architecture.

Product:

1mg/ml in PBS with 0.1% Sodium Azide, 50% Glycerol.

Molecular Weight:

~ 140 kDa

Swiss-Prot:

O95239

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

ICC: 1:50~1:200

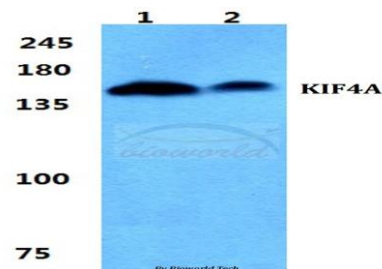
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

KIF4A polyclonal antibody detects endogenous levels of KIF4A protein.

DATA:



Western blot (WB) analysis of KIF4A polyclonal antibody at 1:500 dilution

Lane1:MCF-7 cell lysate

Lane2:sp2/0 cell lysate

Note:

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

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