

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



KIF4A Peptide

Cat No.: BS5774P

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.

Swiss-Prot

O95239

Applications

Blocking

Specificity

This peptide can be used with studies using BS5774 KIF4A pAb.

Purification & Purity

Synthetic peptide KIF4A. (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

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

Research Use

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

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