

Eg5 Rabbit mAb

Catalog No: #49691

Package Size: #49691-1 50ul #49691-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

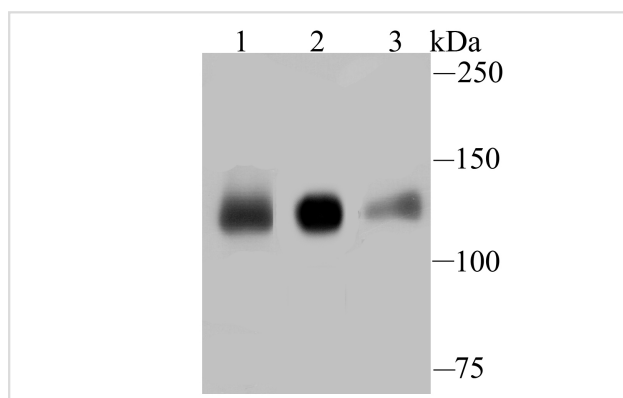
Description

Product Name	Eg5 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JU83-16
Purification	ProA affinity purified
Applications	WB,IP
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	EG5 antibody HKSP antibody KIF11 antibody KIF11_HUMAN antibody Kinesin family member 11 antibody Kinesin like protein 1 antibody Kinesin-like protein 1 antibody Kinesin-like protein KIF11 antibody Kinesin-like spindle protein HKSP antibody Kinesin-related motor protein Eg5 antibody KNSL1 antibody MCLMR antibody Thyroid receptor-interacting protein 5 antibody TR-interacting protein 5 antibody TRIP-5 antibody TRIP5 antibody
Accession No.	Swiss-Prot#:P52732
Calculated MW	119 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:500-1:2,000IP: 1:10-1:50

Images



Western blot analysis of Eg5 on different cell lysates using anti-Eg5 antibody at 1/500 dilution.

Positive control:

Lane 1: 293

Lane 2: A431

Lane 3: Jurkat

Background

Eukaryotes contain a superfamily of microtubule-based motor proteins comprising kinesin and a number of related proteins that are thought to participate in various forms of intracellular motility, including cell division and organelle transport. KIF11(also known as kinesin family member 11, Eg5

or TRIP5) is a slow, plus-end-directed microtubule-based motor of the BimC kinesin family that is essential for bipolar spindle formation during eukaryotic cell division. When the expression of KIF11 is blocked, centrosome migration halts and cells are arrested in mitosis with monoastrial microtubule arrays. KIF11 is phosphorylated on serine during S phase and on both serine and Thr 927 during mitosis, which regulates the association of Eg5 with the spindle apparatus (probably during early prophase). KIF11 is also known to be a member of the thyroid receptor interacting protein (Trip) family, and interacts with the thyroid hormone receptor only in the presence of thyroid hormone.

References

- 1.Chien JY et al. aTAT1 downregulation induces mitotic catastrophe in HeLa and A549 cells. *Cell Death Discov* 2:16006 (2016).
2. Drosopoulos K et al. APC/C is an essential regulator of centrosome clustering. *Nat Commun* 5:3686 (2014).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.