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Eg5 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP53275

Product Information

Application	WB, ICC, IP
Primary Accession	P52732
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	119159

Additional Information

Gene ID	3832
Other Names	EG5;HKSP;KIF11;KIF11_HUMAN;kinesin family member 11;Kinesin like protein 1;Kinesin like spindle protein HKSP;Kinesin-like protein 1;Kinesin-like protein KIF11;Kinesin-like spindle protein HKSP;Kinesin-related motor protein Eg5;KNSL1;MCLMR;Thyroid receptor interacting protein 5;Thyroid receptor-interacting protein 5;TR-interacting protein 5; TRIP-5;TRIP5.
Dilution	WB~~1:1000 ICC~~1:200 IP~~1:500
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	KIF11
Synonyms	EG5, KNSL1, TRIP5
Function	Motor protein required for establishing a bipolar spindle and thus contributing to chromosome congression during mitosis (PubMed:19001501, PubMed:37728657). Required in non-mitotic cells for transport of secretory proteins from the Golgi complex to the cell surface (PubMed:23857769).
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton, spindle pole

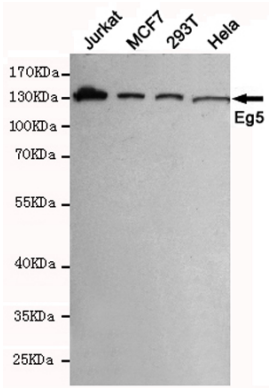
Background

Motor protein required for establishing a bipolar spindle. Blocking of KIF11 prevents centrosome migration and arrest cells in mitosis with monoastral microtubule arrays.

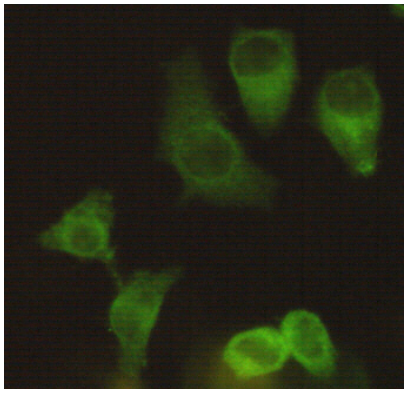
References

Blangy A.,et al.Cell 83:1159-1169(1995).
Whitehead C.M.,et al.J. Cell Sci. 111:2551-2561(1998).
Deloukas P.,et al.Nature 429:375-381(2004).
Lee J.W.,et al.Mol. Endocrinol. 9:243-254(1995).
Beausoleil S.A.,et al.Nat. Biotechnol. 24:1285-1292(2006).

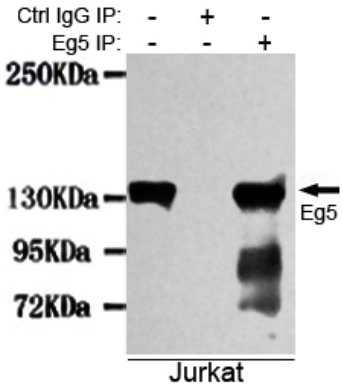
Images



Western blot detection of Eg5 in MCF7,293T,Jurkat and Hela cell lysates using Eg5 mouse mAb (1:1000 diluted).Predicted band size:130KDa.Observed band size:130KDa.



Immunocytochemistry staining of Hela using Eg5 mouse mAb (1:200).



Immunoprecipitation analysis of Jurkat cell lysates using Eg5 mouse mAb.