Product Datasheet

MKLP1 Rabbit mAb

Catalog No: #48796

Package Size: #48796-1 50ul #48796-2 100ul

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

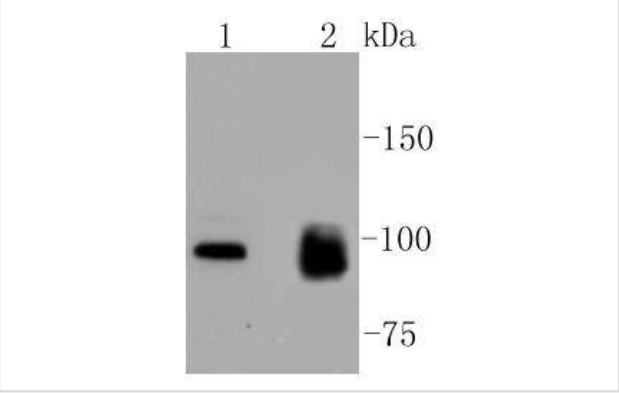
Description

Product Name	MKLP1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY02-74
Purification	ProA affinity purified
Applications	WB, ICC/IF
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	CHO 1 antibody CHO1 antibody KIF 23 antibody KIF23 antibody KIF23_HUMAN antibody Kinesin family member 23 antibody Kinesin like 5 antibody Kinesin like protein 5 antibody Kinesin like protein KIF 23 antibody Kinesin like protein KIF23 antibody Kinesin-like protein 5 antibody Kinesin-like protein KIF23 antibody KNS L5 antibody KNSL 5 antibody KNSL5 antibody Mitotic kinesin like 1 antibody Mitotic kinesin like protein 1 antibody Mitotic kinesin-like protein 1 antibody MKLP 1 antibody
Accession No.	Swiss-Prot#:Q02241
Uniprot	Q02241
GeneID	9493;
Calculated MW	98 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

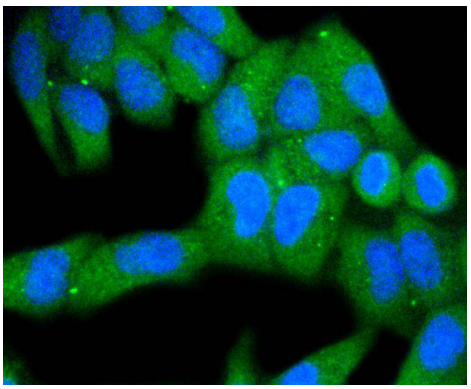
Application Details

WB: 1:1,000-5,000ICC: 1:50-1:200

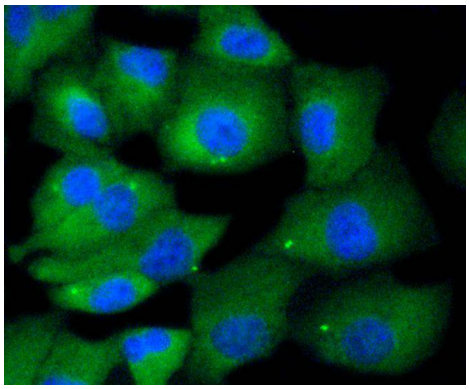
Images



Western blot analysis of MKLP1 on different lysates using anti-MKLP1 antibody at 1/1,000 dilution. Positive control:
Lane 1: A549 Lane 2: Hela



ICC staining MKLP1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining MKLP1 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

The monoclonal antibody CHO1 detects a spindle antigen required for mitotic progression. Screening a HeLa cell cDNA expression library with this antibody has been shown to yield a cDNA predicted to encode a protein significantly related within its amino terminal half to the motor ends of members of the kinesin superfamily. Since this similarity does not extend further, it has been suggested that the CHO1 antigen, now designated MKLP-1 (mitotic kinesin-like protein-1), represents a novel kinesin. Sequence analysis has also been shown to predict that MKLP-1 possesses features typical of nuclear proteins. Immunocytological studies have demonstrated that MKLP-1 moves from the nucleus early in mitosis and then to the midbody after cytokinesis. MKLP-1 has been shown to bundle antiparallel microtubules in vitro and to move them at rates comparable to spindle elongation in vivo. A hamster homolog of MKLP-1, designated CHO1 antigen, has also been isolated. Although apparently functionally equivalent with respect to microtubule bundling activity, there are significant differences between the human and hamster proteins at their C-termini, possibly due to alternative splicing or the presence of more than one MKLP-1 locus.

References

Note: This product is for in vitro research use only