

For Research Use Only

# RANGAP1 Monoclonal antibody

Catalog Number: 67146-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 67146-1-Ig	<b>GenBank Accession Number:</b> BC014044	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 ug/ml by 5905 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5905	<b>CloneNo.:</b> 1F3A4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P46060	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:50-1:200
<b>Isotype:</b> IgG1	<b>Full Name:</b> Ran GTPase activating protein 1	
<b>Immunogen Catalog Number:</b> AG26136	<b>Calculated MW:</b> 64 kDa	
	<b>Observed MW:</b> 64 kDa, 82 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF	<b>WB :</b> U2OS cells, HeLa cells, HEK-293 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, A549 cells, LNCaP cells, K-562 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> HepG2 cells,
<b>Cited Species:</b> human	

## Background Information

RanGAP1 is a protein that associates with the nuclear pore complex and participates in the regulation of nuclear transport. In mammalian cells, unmodified RanGAP1 is predominantly cytoplasmic, whereas modification by small ubiquitin-related modifier protein (SUMO) targets RanGAP1 to the cytoplasmic filaments of nuclear pore complex (NPC) where it forms a complex with RanBP2 and Ubc9. Phosphorylation of RanGAP1 occurs in a cell-cycle-dependent manner and may play a role in regulating RanGAP1 catalytic activity. We got 64 kDa (cytoplasmic Ran GAP1) and 82 kDa (SUMO-1 modified Ran GAP1) in western blotting.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tae Yeon Yoo	33909044	J Cell Biol	IF

## Storage

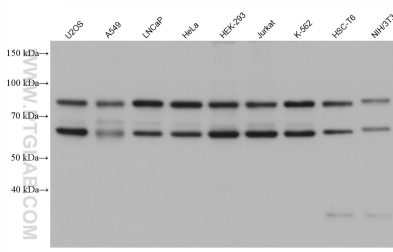
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

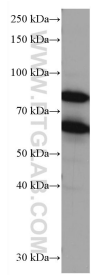
For technical support and original validation data for this product please contact:  
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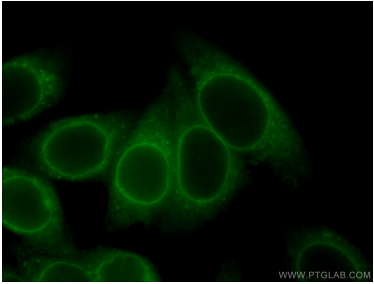
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67146-1-Ig (RANGAP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



HeLa cells were subjected to SDS PAGE followed by western blot with 67146-1-Ig (RANGAP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 67146-1-Ig (RANGAP1 antibody) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Mouse IgG(H+L).