Product Datasheet

RanGAP1 Rabbit mAb

Catalog No: #49918

Package Size: #49918-1 50ul #49918-2 100ul

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

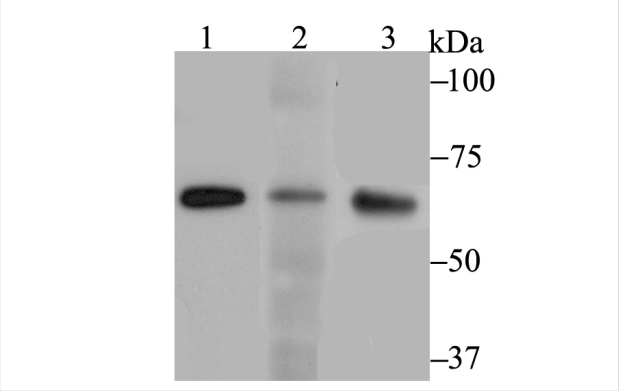
Description

Product Name	RanGAP1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JG37-41
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,FC,IP
Species Reactivity	Hu, Ms, Rt
Other Names	Fug 1 antibody Fug1 antibody GTPase-activating protein, RAN, 1 antibody KIAA1835 antibody MGC20266 antibody OTTHUMP00000028918 antibody OTTHUMP00000198755 antibody OTTHUMP00000198756 antibody OTTHUMP00000198757 antibody OTTHUMP00000198758 antibody RAGP1_HUMAN antibody Ran 1 antibody RAN GTPase activating protein 1 antibody Ran GTPase-activating protein 1 antibody Ran1 antibody RANGAP 1 antibody RANGAP antibody RanGAP1 antibody SD antibody Segregation distorter homolog antibody Segregation distortion antibody
Accession No.	Swiss-Prot#:P46060
Uniprot	P46060
GeneID	5905;
Calculated MW	64 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

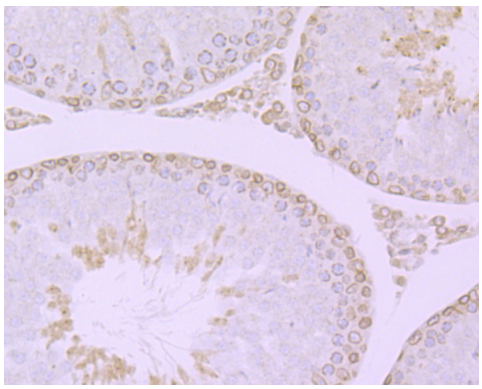
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC/IF: 1:100IP: 1:10-1:50 FC: 1:50-1:100

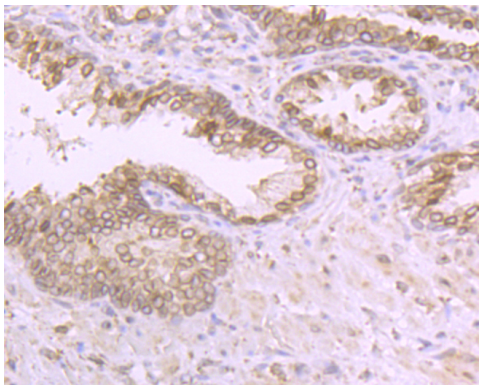
Images



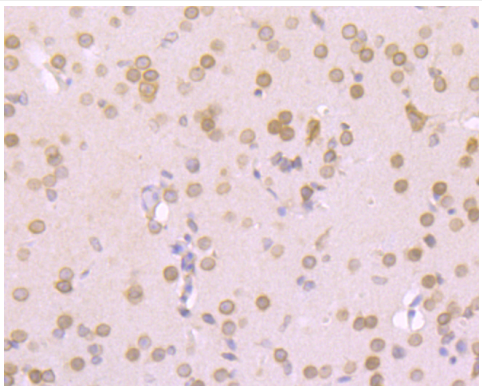
Western blot analysis of RanGAP1 on different cell lysates using anti-RanGAP1 antibody at 1/1,000 dilution. Positive control: Lane 1: MCF-7 Lane 2: SiHa Lane 3: 293



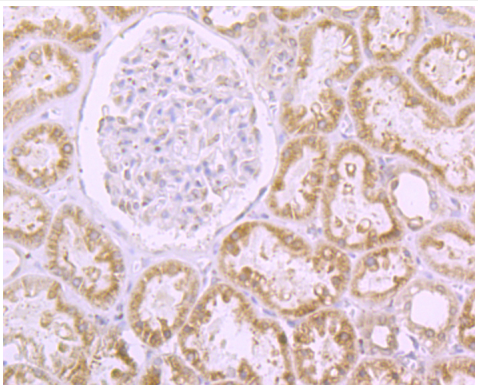
Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-RanGAP1 antibody. Counter stained with hematoxylin.



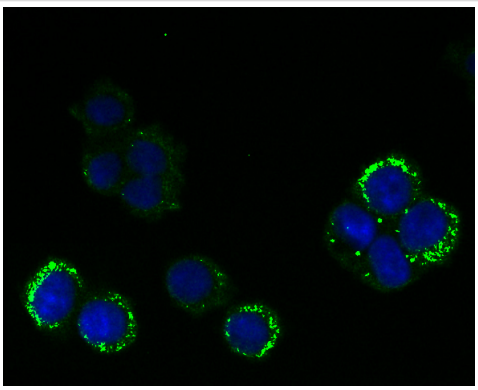
Immunohistochemical analysis of paraffin-embedded human prostate tissue using anti-RanGAP1 antibody. Counter stained with hematoxylin.



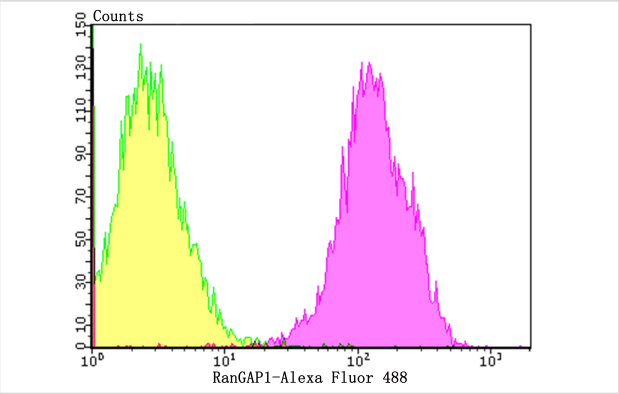
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-RanGAP1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-RanGAP1 antibody. Counter stained with hematoxylin.



ICC staining RanGAP1 (green) in 293T cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of A431 cells with RanGAP1 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

The small Ras related protein Ran, also called TC4, is a nuclear localized GTPase implicated in a diverse array of cellular processes including DNA replication, entry into and exit from mitosis and the transport of RNA and proteins through the nuclear pore complex. Like Ras, active Ran GTP and inactive Ran GDP levels are tightly regulated by guanine nucleotide exchange factors (GEFs) and GTPase-activating proteins (GAPs). The abundant GEF RCC1 (regulator of chromosome condensation 1) increases the rate at which Ran exchanges GDP for GTP. Ran GAP1 opposes the effects of RCC1 by increasing the rate at which Ran hydrolyzes GTP to GDP. A protein designated Ran BP1 has no intrinsic GAP activity and functions as a GEF inhibitor deactivating RCC1 and thereby indirectly increasing the ratio of Ran GDP to Ran GTP. Ran BP2 has been proposed as the Ran GTP docking site at the periphery of the nuclear pore complex.

References

Note: This product is for in vitro research use only