Data Sheet (Cat.No.TMAC-03531)

Anti-RanGAP1 Antibody (8X592)

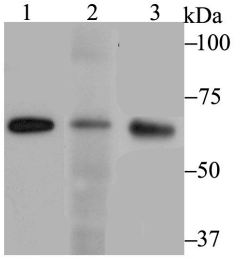
Product Details

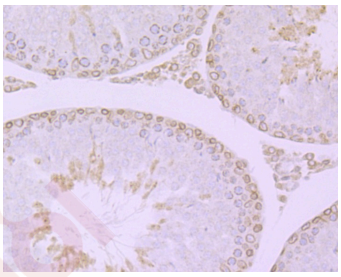
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 64 kDa.
Clone:	8X592
Purification:	ProA affinity purified

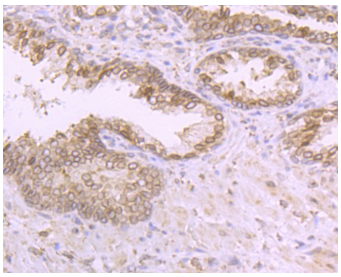
Applications

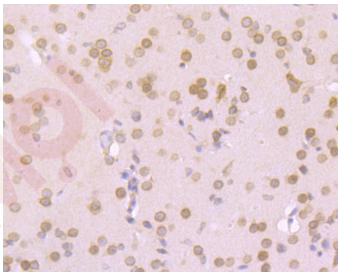
Verified Activity:

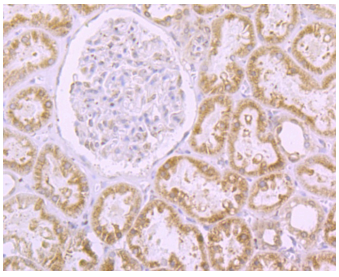
1. Western blot analysis of RanGAP1 on different cell lysates using anti-RanGAP1 antibody at 1/1,000 dilution. Positive control: Lane 1: MCF-7, Lane 2: SiHa, Lane 3: 293.
2. Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-RanGAP1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human prostate tissue using anti-RanGAP1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-RanGAP1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-RanGAP1 antibody. Counter stained with hematoxylin.
6. 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.
7. 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.

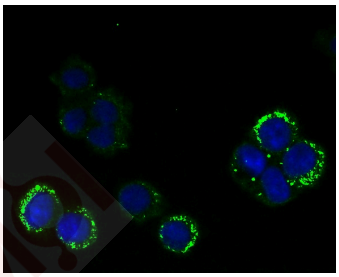


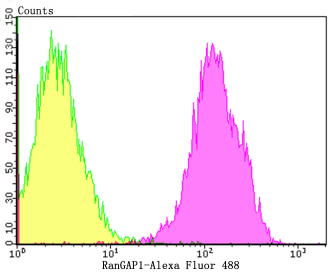












Application: FCM,ICC,IF,IHC,IP,WB

Recommended: WB: 1:500-2000; IHC: 1:50-200; ICC:IF: 1:100; IP: 1:10-50; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Uniprot ID:	P46060
Synonyms:	RAGP1_HUMAN;Fug1;Segregation distorter homolog;SD;RAN GTPase activating protein 1; RanGAP 1;Fug 1;Ran 1;GTPase-activating protein, RAN, 1;OTTHUMP00000028918;Segregation distortion;MGC20266;OTTHUMP00000198758;RANGAP;KIAA1835;OTTHUMP00000198756; RanGAP1;OTTHUMP00000198755;Ran1;Ran GTPase-activating protein 1;OTTHUMP00000198757

Research 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.

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