

Rabbit RANGAP1 Polyclonal Antibody | anti-RANGAP1 antibody

RANGAP1 Antibody

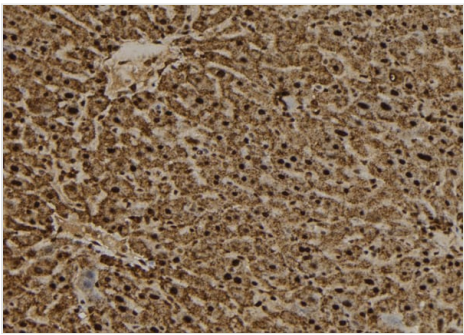
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327016	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

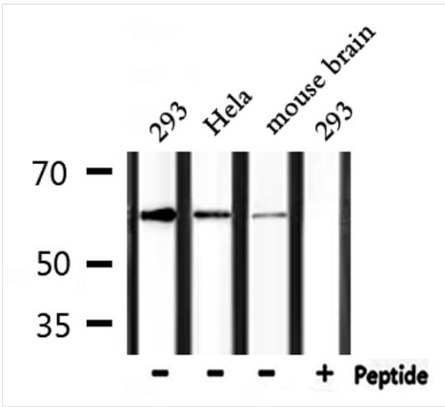
RANGAP1; Polyclonal Antibody; RANGAP1 Antibody; Fug 1; Fug1; GTPase-activating protein; RAN; 1; KIAA1835; MGC20266; OTTHUMP00000028918; OTTHUMP00000198755; OTTHUMP00000198756; OTTHUMP00000198757; OTTHUMP00000198758; RAGP1_HUMAN; Ran 1; RAN GTPase activating protein 1; Ran GTPase-activating protein 1; Ran1; RANGAP 1; RANGAP; RanGAP1; SD; Segregation distorter homolog; Segregation distortion; anti-RANGAP1 antibody

PRODUCT SPECIFICATIONS

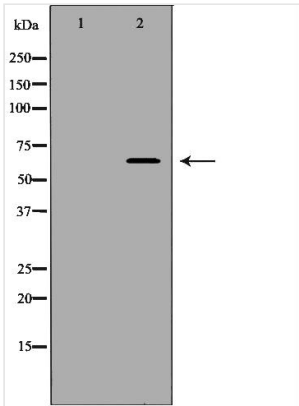
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RANGAP1 antibody detects endogenous levels of total RANGAP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	587
Applicable Applications for anti-RANGAP1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RANGAP1
Subcellular Location	Cytoplasm. Nucleus Membrane. Chromosome, Centromere, Kinetochore. Cytoplasm, Cytoskeleton, Spindle Pole. Cytoplasmic during interphase. Targeted to the nuclear rim after sumoylation. During mitosis, associates with mitotic spindles. Association with kinetochores appears soon after nuclear envelope breakdown and persists until late anaphase. Mitotic location also requires sumoylation.
Tissue Specificity	Highly expressed in brain, thymus and testis.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemisry)
AAA327016 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from 293, Hela and mouse brain, using RANGAP1 Antibody.



WB (Western Blot)
Western blot analysis of 293T whole cell lysates, using RANGAP1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RANGAP1 antibody	Description: This gene encodes a protein that associates with the nuclear pore complex and participates in the regulation of nuclear transport. The encoded protein interacts with Ras-related nuclear protein 1 (RAN) and regulates guanosine triphosphate (GTP)-binding and exchange. Alternative splicing results in multiple transcript variants. Function: GTPase activator for RAN (PubMed:8146159, PubMed:8896452, PubMed:16428860). Converts cytoplasmic GTP-bound RAN to GDP-bound RAN, which is essential for RAN-mediated nuclear import and export (PubMed:8896452, PubMed:27160050). Mediates dissociation of cargo from nuclear export complexes containing XPO1, RAN and RANBP2 after nuclear export (PubMed:27160050). Subunit Structure: Homodimer (PubMed:8146159). Interacts with RAN (PubMed:7891706, PubMed:8896452, PubMed:16428860). Forms a complex with RANBP2/NUP358, NXF1 and NXT1 (PubMed:14729961). Forms a tight complex in association with RANBP2/NUP358 and UBE2I/UBC9, the ubiquitin-conjugating enzyme E2 (PubMed:15037602, PubMed:27160050, PubMed:15931224, PubMed:22194619). Interacts with UBE2I; the interaction conjugates SUMO1 to RANGAP1, and subsequently stabilizes interactions of sumoylated RANGAP1 with RANBP2/NUP358 (PubMed:15037602, PubMed:27160050, PubMed:15931224). The complex composed of RANBP2, SUMO1, RANGAP1 and UBE2I associates with nuclear pore complexes (PubMed:15037602, PubMed:15931224). Identified in a complex composed of RAN, RANBP2, sumoylated RANGAP1, UBE2I and XPO1 (PubMed:27160050). Identified in a complex composed of RAN, RANGAP1 and RANBP1 (PubMed:16428860). Interacts with TRAF6 (PubMed:18093978). Interacts with SUMO1 and SENP1 (PubMed:17099698). Post-translational Modifications: Phosphorylation occurs before nuclear envelope breakdown and continues throughout mitosis. Phosphorylated by the M-phase kinase cyclin B/Cdk1, in vitro. Differential timing of dephosphorylation occurs during phases of mitosis. The phosphorylated form remains associated with RANBP2/NUP358 and the SUMO E2-conjugating enzyme, UBE2I, on nuclear pore complex (NPC) disassembly and during mitosis. Sumoylated (PubMed:11854305, PubMed:15037602, PubMed:27160050). Sumoylation is necessary for targeting to the nuclear envelope (NE), and for association with mitotic spindles and kinetochores during mitosis (PubMed:11854305). Also required for interaction with RANBP2 and is mediated by UBE2I (PubMed:27160050). Similarity: Belongs to the RNA1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	520975387
NCBI GeneID	5905
NCBI Accession #	NP_001265580.1
NCBI GenBank Nucleotide #	NM_001278651.1
UniProt Accession #	P46060; Q96JJ2
Molecular Weight	Observed: 63 kDa Predicted: 64 kDa
NCBI Official Full Name	ran GTPase-activating protein 1
NCBI Official Synonym Full Names	Ran GTPase activating protein 1
NCBI Official Symbol	RANGAP1
NCBI Official Synonym Symbols	SD; Fug1; RANGAP
NCBI Protein Information	ran GTPase-activating protein 1
UniProt Protein Name	Ran GTPase-activating protein 1
UniProt Gene Name	RANGAP1
UniProt Synonym Gene Names	KIAA1835; SD; RanGAP1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rangap1-antibody-immunohistochemistry-western-blot-elisa/327016>