

RanGAP1 Antibody

Rabbit mAb

Catalog # AP91858

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P46060
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	SD; Fug1; RANGAP;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	63542

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:20 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human RanGAP1
Description	GTPase activator for the nuclear Ras-related regulatory protein Ran, converting it to the putatively inactive GDP-bound state.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

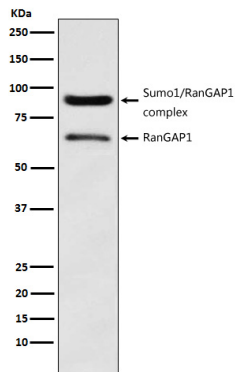
Name	RANGAP1
Synonyms	KIAA1835, SD
Function	GTPase activator for RAN (PubMed: 16428860 , PubMed: 8146159 , PubMed: 8896452). Converts cytoplasmic GTP-bound RAN to GDP-bound RAN, which is essential for RAN-mediated nuclear import and export (PubMed: 27160050 , PubMed: 8896452). Mediates dissociation of cargo from nuclear export complexes containing XPO1, RAN and RANBP2 after nuclear export (PubMed: 27160050).
Cellular Location	Cytoplasm. Nucleus, nucleoplasm. Nucleus envelope. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Note=Cytoplasmic during interphase Detected at the nuclear envelope during interphase (PubMed:11854305, PubMed:15037602). Targeted to the nuclear pores after sumoylation (PubMed:11854305). During mitosis, associates with mitotic spindles, but is essentially not detected at the spindle poles (PubMed:11854305, PubMed:15037602). Association with kinetochores appears soon after nuclear envelope breakdown and persists until late

anaphase (PubMed:11854305). Mitotic location also requires sumoylation (PubMed:11854305).

Tissue Location

Highly expressed in brain, thymus and testis.

Images



Western blot analysis of RanGAP1 expression in HeLa cell lysate.

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