RAGP1 Rabbit pAb

CatalogNo: YN2934

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,ELISA

MW
- 64kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from part region of human protein
Specificity	RAGP1 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	RANGAP1 KIAA1835 SD

Protein Name Ran GTPase-activating protein 1 (RanGAP1)

Organism	Gene ID	UniProt ID
Human	5905;	P46060;
Mouse		P46061;

Cellular Localization Cytoplasm . Nucleus, nucleoplasm . Nucleus envelope . Chromosome, centromere, kinetochore . Cytoplasm, cytoskeleton, spindle . 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 specificity Highly expressed in brain, thymus and testis.

Function Function:GTPase activator for the nuclear Ras-related regulatory protein Ran, converting it to the putatively inactive GDP-bound state.,PTM:Phosphorylated occurs before nuclear envelope breakdown and continues throughout mitosis. Phosphorylated by the M-phase kinase cyclin B/Cdk1, in vitro. Differential timimg of dephosphorylation occurs during phases of mitosis. The phosphorylated form remains associated with RANBP2/NUP358 and the SUMO E2-conjugating enzyme, UBC9, on nuclear pore complex (NPC) diassembly and during mitosis.,PTM:Sumoylated by SUMO1. Sumoylation is necessary for targeting to the nuclear envelope (NE), and for association with mitotic spindles and kinetochores during mitosis. Also required for interaction with RANBP2 and is mediated by UBC9.,similarity:Belongs to the RNA1 family.,similarity:Contains 6 LRR (leucine-rich) repeats.,subcellular location: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.,subunit:Homodimer. Forms a tight complex in association with RANBP2/NUP358 and UBE2I/UBC9, the ubiquitin-conjugating enzyme E2. Interacts with UBE2I; the interaction conjugates SUMO1 to RANGAP1, and subsequently stabilizes interactions of sumoylated RANGAP1 with RANBP2/NUP358. The SUMO1/RANGAP1/UBC9/NUP358 complex associates with nuclear pore complexes.,tissue specificity:Highly expressed in brain, thymus and testis.,

Validation Data

Contact information

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