



RAGP1 Monoclonal Antibody

Catalog No	YP-mAb-07780
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	RANGAP1 KIAA1835 SD
Protein Name	Ran GTPase-activating protein 1 (RanGAP1)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	RAGP1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	64kD
Cell Pathway	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 timing 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) disassembly 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 inte

Background

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. [provided by RefSeq, Jul 2013],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images