abcam

Product datasheet

Recombinant Human RanGAP1 protein ab131750

1 Image

Description		
Product name	Recombinant Human RanGAP	1 protein
Expression system	Wheat germ	
Accession	<u>P46060</u>	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence		 MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLNTAEDAKD VIKEIEDFDS LEALRLEGNTVGVEAARVIAKALEKKSELKRCHWSDMFT GRLRTEIPPAL ISLGEGLITAGAQLVELDLSDNAFGPDGVQGFEALLKSSA CFTLQELKLN NCGMGIGGGKILAAALTECHRKSSAQGKPLALKVFVAGRN RLENDGATAL AEAFRVIGTLEEVHMPQNGINHPGITALAQAFAVNPLLRVIN LNDNTFTE KGAVAMAETLKTLRQVEVINFGDCLVRSKGAVAIADAIRG GLPKLKELNL SFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCE QLQEVLEGFNM AKVLASLSDDEDEEEEEEGEEEEEAEEEEEEEEEEEEEEEEEEEEEE
Predicted molecular weight	90 kDa including tags	
Amino acids	1 to 587	

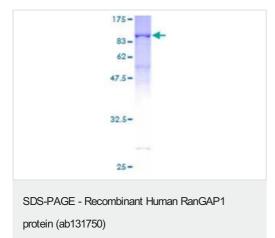
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Our <u>Abpromise guarantee</u> covers the use of ab131750 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot	
	SDS-PAGE	
	ELISA	
Form	Liquid	
Preparation and Storage		
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.	
	pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCI	
General Info		
Function	GTPase activator for the nuclear Ras-related regulatory protein Ran, converting it to the putatively inactive GDP-bound state.	
Tissue specificity	Highly expressed in brain, thymus and testis.	
Sequence similarities	Belongs to the RNA1 family. Contains 6 LRR (leucine-rich) repeats.	
Post-translational modifications	 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) diassembly and during mitosis. Sumoylated with 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. 	
Cellular localization	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.	

Images



12.5% SDS-PAGE analysis of ab131750, stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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