

Recombinant Human RASA1 Protein, His tagged

Cat. No. RASA1-001H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human RASA1 Protein (181-272 aa) with C-His tag was expressed in Baculovirus-Insect cells.
Species	Human
Source	Insect cells
ProteinLength	181-272 aa
Description	<p>The protein encoded by this gene is located in the cytoplasm and is part of the GAP1 family of GTPase-activating proteins. The gene product stimulates the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. Mutations leading to changes in the binding sites of either protein are associated with basal cell carcinomas. Mutations also have been associated with hereditary capillary malformations (CM) with or without arteriovenous malformations (AVM) and Parkes Weber syndrome. Alternative splicing results in two isoforms where the shorter isoform, lacking the N-terminal hydrophobic region but retaining the same activity, appears to be abundantly expressed in placental but not adult tissues.</p>
Source	Insect cells
Species	Human

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Tag	C-His
Molecular Weight	12 kDa
AA Sequence	MWYHGKLDRTIAEERLRQAGKSGSYLIRESDRRPGSFVLSFLSQMNVVNHFRIIAMC GDYYIGGRRFSSLSDLIGYYSHVSCLLKGEKLLYPVHHHHHHHH
Endotoxin	< 1 EU/μg by LAL
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4, 10% Glycerol, 5% Trehalose, 0.5% SKL
Concentration	0.75 mg/mL by Bradford

GENE INFORMATION

Gene Name	RASA1 RAS p21 protein activator (GTPase activating protein) 1 [Homo sapiens (human)]
Official Symbol	RASA1
Synonyms	RASA1; RAS p21 protein activator (GTPase activating protein) 1; RASA; ras GTPase-activating protein 1; capillary malformation arteriovenous malformation; CM AVM; GAP; p120GAP; p120RASGAP; triphosphatase-activating protein; PKWS; CMAVM; CM-AVM; RASGAP; DKFZp434N071
Gene ID	5921

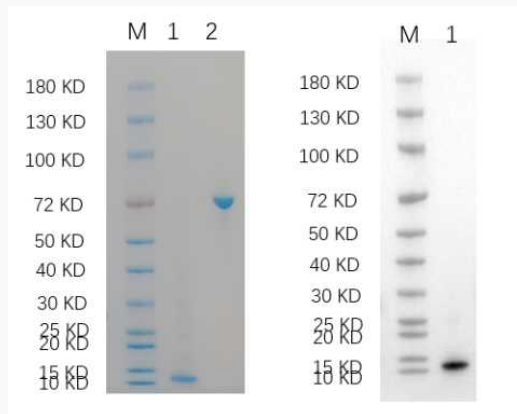
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mRNA Refseq	NM_002890
Protein Refseq	NP_002881
MIM	139150
UniProt ID	P20936

Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified RASA1.



1. RASA1
2. BSA

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