

Recombinant Human RASA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RASA1-3433H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RASA1 MS Standard C13 and N15-labeled recombinant protein (NP_002881) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	116.4 kDa
AA Sequence	MMAAEAGSEEGGPVTAGAGGGGAAAGSSAYPAVCRVKIPAALPVAAPYPGLVET

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GVAGTLGGGAALGSEFLGAGSVAGALGGAGLTGGGTAAGVAGAAAGVAGAAVAG
 PSGDMALTKLPTSLAETLGPGGGFPPPLPPPPYLPPLGAGLGTVDEGDSLDPGEYE
 EEEVAIPLTAPPTNQWYHGKLDRTIAEERLRQAGKSGSYLIRESDRRPGSFVLSFLS
 QMNVVNHFRIIAMCGDYIIGGRFSSLSDLIGYYSHVSCLLKGEKLLYPVAPPEPVED
 RRRVRAILPYTKVPDTDEISFLKGDMFIVHNELEDGMMWVTNLRTDEQGLIVEDLVE
 EVGREEDPHEGKIWFHGKISKQEAYNLLMTVGQVCSFLVRPSDNTPGDYSLYFRNTN
 ENIQRFKICPTPNNQFMMGGRYNSIGDIIDHYRKEQIVEGYLKEPVPMQDQEQLV
 NDTVKGKEIYNTIRRKTKDAFYKNIVKKGYLLKKKGKGRWKNLYFILEGSDAQLIYFE
 SEKRAKPKGLIDLSVCSVYVHDSLFGRPNCFQIVVQHFSEEHYIFYFAGETPEQAE
 DWMKGLQAFCNLRKSSPGTSNKRLRQVSSLVLHIEEAHKLPVKHFTNPYCNIYLNVS
 QVAKTHAREGQNPVWSEEFVDDLPPDINRFEITLSNKTKKSKDPDILFMRCQLSRL
 QKGHATDEWFLLSSHIPKLGIEPGSLRVRARYSMEKIMPEEEYSEFKELILQKELHV
 YALSHVCGQDRTLLASILLRIFLHEKLESLLLCTLNDREISMEDEATTFRATTLASTLM
 EQYMKATATQFVHHALKDSILKIMESKQSCELSPSKLEKNEDVNTNLTHLLNISELV
 EKIFMASEILPPTLRYYIGCLQKSVQHKWPTNTTMRTRVVSGFVFLRLICPAILNPRMF
 NIISDSPSPIAARTLILVAKSVQNLANLVEFGAKEPYMEGVNPFIKSNKHRMIMFLDEL
 GNVPELPDTTEHSRTDLSRDLAALHEICVAHSDELRTLSNERGAQQHVLLKLLAITE
 LQQKQNQYTKTNDVRSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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GENE INFORMATION

Gene Name RASA1 RAS p21 protein activator 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](#)

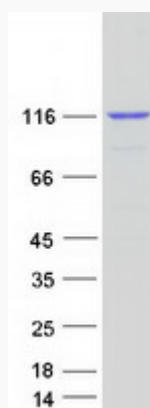
mRNA Refseq [NM_002890](#)

Protein Refseq [NP_002881](#)

MIM [139150](#)

UniProt ID [P20936](#)

SDS-PAGE



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