

Product datasheet for TP527506

Dab2ip (NM_001114124) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins Purified recombinant protein of Mouse disabled 2 interacting protein (Dab2ip), with C-**Description:** terminal MYC/DDK tag, expressed in HEK293T cells, 20ug Species: Mouse **Expression Host:** HEK293T **Expression cDNA Clone** >MR227506 representing NM 001114124 or AA Sequence: Red=Cloning site Green=Tags(s) MSAGGNARKSTGRPSYYYRLLRRPRLQRQRSRSRSRTRPARESPQERPGSRRSLPGSMSEKNPSMEPSAS TPFRVTGFLSRRLKGSIKRTKSQPKLDRNHSFRHILPGFRSAAAAADNERSHLMPRLKESRSHESLLSP SSAVEALDLSMEEEVIIKPVHSSILGQDYCFEVTTSSGSKCFSCRSAAERDKWMENLRRAVHPNKDNSRR VEHILKLWVIEAKDLPAKKKYLCELCLDDVLYARTTSKLKTDNVFWGEHFEFHNLPPLRTVTVHLYRETD KKKKKERNSYLGLVSLPAASVAGRQFVEKWYPVVTPNPKGGKGPGPMIRIKARYQTVSILPMEMYKEFAE HITNHYLGLCAALEPILSAKTKEEMASALVHILQSTGKVKDFLTDLMMSEVDRCGDNEHLIFRENTLATK AIEEYLKLVGQKYLQDALGEFIKALYESDENCEVDPSKCSSADLPEHQGNLKMCCELAFCKIINSYCVFP RELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQEYPDDRTARTLTLIAKVTQN LANFAKFGSKEEYMSFMNQFLEHEWTNMQRFLLEISNPETLSNTAGFEGYIDLGRELSSLHSLLWEAVSQ LDQSVVSKLGPLPRILRDVHTALSTPGSGQLPGTNDLASTPGSGSSSVSAGLQKMVIENDLSGLIDFTRL PSPTPENKDLFFVTRSSGVQPSPARSSSYSEANEPDLQMANGSKSLSMVDLQDARTLDGEAGSPVGPDAL PADGQVPATQLLAGWPARAAPVSLAGLATVRRAVPTPTTPGTSEGAPGRPQLLAPLSFQNPVYQMAAGL Ρ LSPRGLGDSGSEGHSSLSSHSNSEELAAAAKLGSFSTAAEELARRPGELARRQMSLTEKGGQPTVPRQNS AGPQRRIDQPPPPPPPPPPPPPRGRTPPTLLSTLQYPRPSSGTLASASPDWAGPGTRLRQQSSSSKGDSPE LKPRAMHKQGPSPVSPNALDRTAAWLLTMNAQLLEDEGLGPDPPHRDRLRSKEELSQAEKDLAVLQDKL R ISTKKLEEYETLFKCQEETTQKLVLEYQARLEEGEERLRRQQEDKDIQMKGIISRLMSVEEELKKDHAEM QAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKERYSMQARNGVSPTNPTKLQITENGEFRNSSNC **TRTRPLEQKLISEEDLAANDILDYKDDDDKV** C-MYC/DDK Tag: Predicted MW: 131.7 kDa



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	Dab2ip (NM_001114124) Mouse Recombinant Protein – TP527506
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP 001107596</u>
Locus ID:	69601
UniProt ID:	Q3UHC7
RefSeq Size:	6540
Cytogenetics:	2 B
RefSeq ORF:	3567
Synonyms:	2310011D08Rik; Al480459; Aip1; mKIAA1743

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Summary:

Functions as a scaffold protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Involved in several processes such as innate immune response, inflammation and cell growth inhibition, apoptosis, cell survival, angiogenesis, cell migration and maturation. Plays also a role in cell cycle checkpoint control; reduces G1 phase cyclin levels resulting in G0/G1 cell cycle arrest. Mediates signal transduction by receptor-mediated inflammatory signals, such as the tumor necrosis factor (TNF), interferon (IFN) or lipopolysaccharide (LPS). Modulates the balance between phosphatidylinositol 3-kinase (PI3K)-AKT-mediated cell survival and apoptosis stimulated kinase (MAP3K5)-JNK signaling pathways; sequesters both AKT1 and MAP3K5 and counterbalances the activity of each kinase by modulating their phosphorylation status in response to proinflammatory stimuli. Acts as a regulator of the endoplasmic reticulum (ER) unfolded protein response (UPR) pathway; specifically involved in transduction of the ER stress-response to the JNK cascade through ERN1. Mediates TNF-alpha-induced apoptosis activation by facilitating dissociation of inhibitor 14-3-3 from MAP3K5; recruits the PP2A phosphatase complex which dephosphorylates MAP3K5 on 'Ser-966', leading to the dissociation of 13-3-3 proteins and activation of the MAP3K5-JNK signaling pathway in endothelial cells. Mediates also TNF/TRAF2-induced MAP3K5-JNK activation, while it inhibits CHUK-NF-kappa-B signaling. Acts a negative regulator in the IFN-gamma-mediated JAK-STAT signaling cascade by inhibiting smooth muscle cell (VSMCs) proliferation and intimal expansion, and thus, prevents graft arteriosclerosis (GA). Acts as a GTPase-activating protein (GAP) for the ADP ribosylation factor 6 (ARF6) and Ras. Promotes hydrolysis of the ARF6bound GTP and thus, negatively regulates phosphatidylinositol 4,5-bisphosphate (PIP2)dependent TLR4-TIRAP-MyD88 and NF-kappa-B signaling pathways in endothelial cells in response to lipopolysaccharides (LPS). Binds specifically to phosphatidylinositol 4-phosphate (PtdIns4P) and phosphatidylinositol 3-phosphate (PtdIns3P). In response to vascular endothelial growth factor (VEGFA), acts as a negative regulator of the VEGFR2-PI3K-mediated angiogenic signaling pathway by inhibiting endothelial cell migration and tube formation. In the developing brain, promotes both the transition from the multipolar to the bipolar stage and the radial migration of cortical neurons from the ventricular zone toward the superficial layer of the neocortex in a glial-dependent locomotion process. Probable downstream effector of the Reelin signaling pathway; promotes Purkinje cell (PC) dendrites development and formation of cerebellar synapses. Functions also as a tumor suppressor protein in prostate cancer progression; prevents cell proliferation and epithelial-to-mesenchymal transition (EMT) through activation of the glycogen synthase kinase-3 beta (GSK3B)-induced beta-catenin and inhibition of PI3K-AKT and Ras-MAPK survival downstream signaling cascades, respectively.[UniProtKB/Swiss-Prot Function]

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