Recombinant Human APPL1, His-tagged

Cat. No. APPL1-1001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APPL1 was produced in*E.Coli*containing 709 AA, N-terminal His-tag and the protease cleavage site, 31 extra AA.
Species	Human
Source	E.coli
Description	APPL1, an adaptor protein containing an NH2-terminal Bin/Amphiphiphysin/Rvs (BAR) domain, a central pleckstrin homology (PH) domain and a COOH-terminal phosphotyrosine binding (PTB) domain, was originally identified as an interacting partner of Akt in a yeast two-hybrid assay using Akt2 as a bait. APPL1 binds to a number of cell surface receptors (TrkA, DCC, adiponectin, FSH) and intracellular signaling molecules (small GTPase Rab5, GIPC and inositol 5- phosphatase, suggesting that APPL1 may act as a common relay to coordinate diverse signaling cascades. APPL1 potentiates insulin-mediated Akt activation by counteracting the effect of the Akt inhibitor TRB3.
Amino Acid Sequence	MSYYHHHHHH DYDIPTTENL YFQGAMGSGI QPGIDKLPIE ETLEDSPQTR SLLGVFEEDA TAISNYMNQL YQAMHRIYDA QNELSAATHL TSKLLKEYEK QRFPLGGDDE VMSSTLQQFS KVIDELSSCH AVLSTQLADA MMFPITQFKE RDLKEILTLK EVFQIASNDH DAAINRYSRL SKKRENDKVK YEVTEDVYTS RKKQHQTMMH YFCALNTLQY KKKIALLEPL LGYMQAQISF FKMGSENLNE QLEEFLANIG TSVQNVRREM DSDIETMQQT IEDLEVASDP LYVPDPDPTK FPVNRNLTRK AGYLNARNKT GLVSSTWDRQ FYFTQGGNLM SQARGDVAGG

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	LAMDIDNCSV MAVDCEDRRY CFQITSFDGK KSSILQAESK KDHEEWICTI NNISKQIYLS ENPEETAARV NQSALEAVTP SPSFQQRHES LRPAAGQSRP PTARTSSSGS LGSESTNLAA LSLDSLVAPD TPIQFDIISP VCEDQPGQAK AFGQGGRRTN PFGESGGSTK SETEDSILHQ LFIVRFLGSM EVKSDDHPDV VYETMRQILA ARAIHNIFRM TESHLLVTCD CLKLIDPQTQ VTRLTFPLPC VVLYATHQEN KRLFGFVLRT SSGRSESNLS SVCYIFESNN EGEKICDSVG LAKQIALHAE LDRRASEKQK EIERVKEKQQ KELNKQKQIE KDLEEQSRLI AASSRPNQAS SEGQFVVLSS SQSEESDLGE GGKKRESEA
Form	Filtered (0.22 μm) and lyophilized in 1 mg/mL in PBS.
Purity	>98%.
Quality Control Test	BCA to determine quantity of the protein. SDS PAGE to determine purity of the protein.
Applications	ELISA, Western blotting, Immunoprecipitation.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

GENE INFORMATION

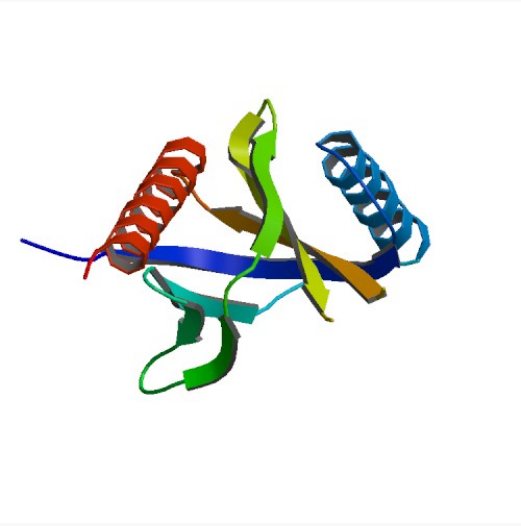
Gene Name	APPL1 adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 [

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	Homo sapiens]
Synonyms	APPL1; adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1; APPL; DIP13alpha; AKT2 interactor; signaling adaptor protein DIP13alpha; adaptor protein containing pH domain, PTB domain and leucine zipper motif 1; DCC-interacting protein 13-alpha;Dip13-alpha; DIP13A; KIAA1428;Dip13-alpha
Gene ID	26060
mRNA Refseq	NM_012096
Protein Refseq	NP_036228
MIM	604299
UniProt ID	Q9UKG1
Chromosome Location	3p21.1-p14.3
Pathway	Colorectal cancer; Pathways in cancer
Function	protein binding; protein kinase B binding

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