Recombinant Human APPL2, His-tagged

Cat. No. APPL2-28348TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human DIP13B with N terminal His tag; amino acids 2-665 , 78.6kDa.
Species	Human
Source	E.coli
ProteinLength	2-665 a.a.
Description	The protein encoded by this gene is one of two effectors of the small GTPase RAB5A/Rab5, which are involved in a signal transduction pathway. Both effectors contain an N-terminal Bin/Amphiphysin/Rvs (BAR) domain, a central pleckstrin homology (PH) domain, and a C-terminal phosphotyrosine binding (PTB) domain, and they bind the Rab5 through the BAR domain. They are associated with endosomal membranes and can be translocated to the nucleus in response to the EGF stimulus. They interact with the NuRD/MeCP1 complex (nucleosome remodeling and deacetylase /methyl-CpG-binding protein 1 complex) and are required for efficient cell proliferation. A chromosomal aberration t(12;22)(q24.1;q13.3) involving this gene and the PSAP2 gene results in 22q13.3 deletion syndrome, also known as Phelan-McDermid syndrome.
Conjugation	HIS
Form	Lyophilised: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!

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	Please filter the product by an appropriate sterile filter before using it in the cell
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: PBS
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MSYYHHHHHH DYDIPTTENL YFQGAMGSGI QRPTSTPAVD KLLLEEALQD SPQTRSLLSV FEEDAGTLTD YTNQLLQAMQ RVYGAQNEMC LATQQLSKQL LAYEKQNFAL GKGDEEVIST LHYFSKVVDE LNLLHTELAK QLADTMVLPI IQFREKDLTE VSTLKDLFGL ASNEHDLSMA KYSRLPKKKE NEKVKTEVGK EVAAARRKQH LSSLQYYCAL NALQYRKQMA MMEPMIGFAH GQINFFKKGA EMFSKRMDSF LSSVADMVQS IQVELEAEAE KMRVSQQELL SVDESVYTPD SDVAAPQINR NLIQKAGYLN LRNKTGLVTT TWERLYFFTQ GGNLMCQPRG AVAGGLIQDL DNCSVMAVDC EDRRYCFQIT TPNGKSGIIL QAESRKENEE WICAINNISR QIYLTDNPEA VAIKLNQTAL QAVTPITSFG KKQESSCPSQ NLKNSEMENE NDKIVPKATA SLPEAEELIA PGTPIQFDIV LPATEFLDQN RGSRRTNPFG ETEDESFPEA EDSLLQQMFI VRFLGSMAVK TDSTTEVIYE AMRQVLAARA IHNIFRMTES HLMVTSQSLR LIDPQTQVSR ANFELTSVTQ FAAHQENKRL VGFVIRVPES TGEESLSTYI FESNSEGEKI CYAINLGKEI IEVQKDPEAL AQLMLSIPLT NDGKYVLLND QPDDDDGNPN EHRGAESEA
Full Length	Full L.

GENE INFORMATION

Gene Name	APPL2 adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2 [Homo sapiens]
Official Symbol	APPL2

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Synonyms	APPL2; adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2; DCC-interacting protein 13-beta; DIP13B; FLJ10659;
Gene ID	55198
mRNA Refseq	NM_018171
Protein Refseq	NP_060641
MIM	606231
Uniprot ID	Q8NEU8
Chromosome Location	12q24.1
Pathway	EGFR1 Signaling Pathway, organism-specific biosystem;
Function	protein binding;

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