Recombinant Human APPL2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. APPL2-4331H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	APPL2 MS Standard C13 and N15-labeled recombinant protein (NP_060641) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	74.5 kDa
AA Sequence	MPAVDKLLLEEALQDSPQTRSLLSVFEEDAGTLTDYTNQLLQAMQRVYGAQNEMCL ATQQLSKQLLAYEKQNFALGKGDEEVISTLHYFSKVVDELNLLHTELAKQLADTMVL

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	PIIQFREKDLTEVSTLKDLFGLASNEHDLSMAKYSRLPKKKENEKVKTEVGKEVAAAR RKQHLSSLQYYCALNALQYRKQMAMMEPMIGFAHGQINFFKKGAEMFSKRMDSFL SSVADMVQSIQVELEAEAEKMRVSQQELLSVDESVYTPDSDVAAPQINRNLIQKAGY LNLRNKTGLVTTTWERLYFFTQGGNLMCQPRGAVAGGLIQDLDNCSVMAVDCEDR RYCFQITTPNGKSGIILQAESRKENEEWICAINNISRQIYLTDNPEAVAIKLNQTALQAV TPITSFGKKQESSCPSQNLKNSEMENENDKIVPKVTASLPEAEELIAPGTPIQFDIVLP ATEFLDQNRGSRRTNPFGETEDESFPEAEDSLLQQMFIVRFLGSMAVKTDSTTEVIY EAMRQVLAARAIHNIFRMTESHLMVTSQSLRLIDPQTQVSRANFELTSVTQFAAHQE NKRLVGFVIRVPESTGEESLSTYIFESNSEGEKICYAINLGKEIIEVQKDPEALAQLMLS IPLTNDGKYVLLNDQPDDDDGNPNEHRGAESEATRTRPLEQKLISEEDLAANDILDY KDDDDKV
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.

GENE INFORMATION

Gene Name	APPL2 adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Homo sapiens (human)]
Official Symbol	APPL2
Synonyms	APPL2; adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper

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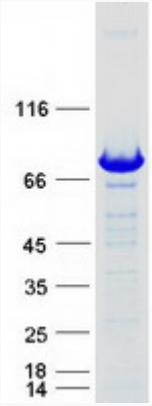
	containing 2; DCC-interacting protein 13-beta; DIP13B; FLJ10659; DIP13 beta; adapter protein containing PH domain, PTB domain and leucine zipper motif 2;
Gene ID	55198
mRNA Refseq	NM_018171
Protein Refseq	NP_060641
MIM	606231
UniProt ID	Q8NEU8
SDS-PAGE	

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