

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	MPAVDKLLLEEALQDSPQTRSLLSVFEEADAGTLTDYTNQLLQAMQRVYGAQNEMCL ATQQLSKQLLAYEKQNFALGKGDEEVISTLHYFSKVVDENLLHTELAQLADTMVL

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PIIQFREKDLTEVSTLKDLFGLASNEHDLSMAKYSRLPKKKENEKVKTEVGKEVAAAR
 RKQHLSSLQYYCALNALQYRKQMAMMEPMIGFAHGQINFFKKGAEMFSKRMDSFL
 SSVADMVQSIQVELEAEAEKMRVSQQELLSVDES VYTPDSDVAAPQINRNLIQKAGY
 LNLRNKTGLVTTTWERLYFFTQGGNLMCQPRGAVAGGLIQDLNCSVMAVDCEDR
 RYCFQITTPNGKSGIILQAESRKENE EWICAINNISRQIYLTDNPEAVA IKLNTALQAV
 TPITSFGKKQE SSCPSQNLKNSE MENENDKIVPKVTASLPEAEELIAPGTPIQFDIVLP
 ATEFLDQNRGSRRTNPFGETEDES FPEAEDSLLQQMFIVRFLGSM AVKTDSTTEVIY
 EAMRQVLAARAIHNIFRMTESHLMTS QSLRLIDPQTQVSRANFELTSVTQFAAHQE
 NKRLVG FVIRVPESTGEESLSTYIFESNSEGEKICYAINLGKEIIEVQKDPEALAQLMLS
 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

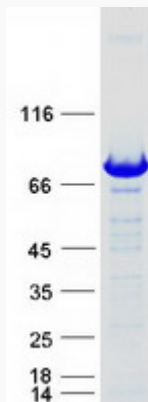
mRNA Refseq NM_018171

Protein Refseq NP_060641

MIM 606231

UniProt ID Q8NEU8

SDS-PAGE



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