

Recombinant Full Length Human APPL2 Protein, GST-tagged

Cat. No. APPL2-1231HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human APPL2 full-length ORF (AAH33731.1, 1 a.a. - 664 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	664 amino acids
Description	<p>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. [provided by RefSeq, Oct 2011]</p>
Molecular Mass	100.9 kDa
AA Sequence	MPAVDKLLLE EALQDSPQTR SLLSVFEEDA GTLTDYTNQL LQAMQRVYGA QNEMCLATQQ LSKQLLAYEK QNFALGKGDE EVISTLHYFS KVVDELNLLH

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TELAQLADT MVLPIIQFRE KDLTEVSTLK DLFGLASNEH DLSTMAKYSRL
 PKKKENEKVK TEVGKEVAAA RRRKQHLSSLQ YYCALNALQY RKQMAMMEPM
 IGFAHGQINF FKKGAEMFSK RMDNFLSSVA DMVQSIQVEL EAEAEKMRVS
 QQELLSVDES VYTPDSDVAA PQINRNLIQK AGYLNLRNKT GLVTTTWERL
 YFFTQGGNLM CQPRGAVAGG LIQDLNCSV MAVDCEDRRY CFQITTPNGK
 SGIIQAESR KENEEWICAI NNISRQIYLT DNPEAVAIKL NQTALQAVTP
 ITSFGKKQES SCPSQNLKNS EMENENDKIV PKVTASLPEA EELIAPGTPI
 QFDIVLPATE FLDQNRGSR TNPFGETEDE SFPEAEDSLL QQMFIVRFLG
 SMAVKTDSTT EVIYEAMRQV LAARAIHNIF RMTESHLMVT SQSLRLIDPQ
 TQVSRANFEL TSVTQFAAHQ ENKRLVGFVI RVPESTGEES LSTYIFESNS
 EGEKICYAIN LGKEIIEVQK DPEALALML SIPLTNDGKY VLLNDQPDDD
 DGNPNEHRGA ESEA

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

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

Official Symbol

APPL2

Synonyms

APPL2; adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper
 containing 2; DCC-interacting protein 13-beta; DIP13B; FLJ10659; DIP13 beta;
 adapter protein containing PH domain, PTB domain and leucine zipper motif 2

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Gene ID	55198
mRNA Refseq	NM_001251904
Protein Refseq	NP_001238833
MIM	606231
UniProt ID	Q8NEU8

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