

Recombinant Human APPL2 protein, GST-tagged

Cat. No. APPL2-726H **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	Wheat Germ
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	MPAVDKLLLEEALQDSPQTRSLLSVFEEDAGTLTDYTNQLLQAMQRVYGAQNEMCL ATQQLSKQLLAYEKQNFALGKGDEEVISTLHYFSKVVDLNLHTELAQLADTMVL PIIQFREKDLTEVSTLKDGLFGLASNEHDLSMAKYSRLPKKKENEKVKTEVGKEVAAAR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RKQHLSSLQYYCALNALQYRKQMAMMEPMIGFAHGQINFFKKGAEEMFSKRMSFL
 SSVADMVQSIQVELEAEAEKMRVSQQELLSVDESIVYTPDSDVAAPQINRNLIQKAGY
 LNLRNKTGLVTTTTWERLYFFTQGGNLMCQPRGAVAGGLIQDLNCSVMAVDCEDR
 RYCFQITTPNGKSGIILQAESRKENEWICAINNISRQIYLTDNPEAVAIAIKLNQTALQAV
 TPITSFGKKQESSCPSQNLKNSEMENENDKIVPKVTASLPEAEELIAPGTPIQFDIVLP
 ATEFLDQNRGSRRTNPFGETEDESFPPEAEDSLLQQMFIVRFLGSMVAVKTDSTTEVIY
 EAMRQVLAARAIHNIFRMTESHLMVTSQSLRLIDPQTQVSRANFELTSVTQFAAHQE
 NKRLVGFVIRVPESTGEEESLSTYIFESNSEGEKICYAINLGKEIIEVQKDPEALAQLMLS
 IPLTNDGKYVLLNDQPDDDDGNPNEHRGAEESEA

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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;

Gene ID

55198

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mRNA Refseq	NM_001251904
Protein Refseq	NP_001238833
MIM	606231
UniProt ID	Q8NEU8

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