

# Recombinant Full Length Human APPL2 Protein, GST-tagged

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

## SPECIFICATION

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

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TELAKQLADT MVLPIIQFRE KDLTEVSTLK DLFGLASNEH DLSTMAKYSRL  
 PKKKENЕКVK TEVGKEVAAA RRKQHLSSLQ 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 FLDQNRGSRR TNPFGETEDE SFPEAEDSLL QQMFIVRFLG  
 SMAVKTDSTT EVIYEAMRQV LAARAIHNIF RMTESHLMTV SQSLRLIDPQ  
 TQVSRANFEL TSVTQFAAHQ ENKRLVGFVI RVPESTGEES LSTYIFESNS  
 EGEKICYAIN LGKEIIEVQK DPEALQML 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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