

Recombinant Mouse Appl1 Protein, Myc/DDK-tagged

Cat. No. Appl1-1667M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 (Appl1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Multifunctional adapter protein that binds to various membrane receptors, nuclear factors and signaling proteins to regulate many processes, such as cell proliferation, immune response, endosomal trafficking and cell metabolism. Regulates signaling pathway leading to cell proliferation through interaction with RAB5A and subunits of the NuRD/MeCP1 complex. Functions as a positive regulator of innate immune response via activation of AKT1 signaling pathway by forming a complex with APPL1 and PIK3R1. Inhibits Fc-gamma receptor-mediated phagocytosis through PI3K/Akt signaling in macrophages. Regulates TLR4 signaling in activated macrophages. Involved in trafficking of the TGFBR1 from the endosomes to the nucleus via microtubules in a TRAF6-dependent manner. Plays a role in cell metabolism by regulating adiponectin and insulin signaling pathways. Required for fibroblast migration through HGF cell signaling. Positive regulator of beta-catenin/TCF-dependent transcription through direct interaction with RUVBL2/reptin resulting in the relief of RUVBL2-mediated repression of beta-catenin/TCF target genes by modulating the interactions within the beta-catenin-reptin-HDAC complex.

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Molecular Mass	79.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Appl1 adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Appl1
Synonyms	APPL1; adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1; DCC-interacting protein 13-alpha; DIP13 alpha; dip13-alpha; adaptor protein APPL like; adapter protein containing PH domain, PTB domain and leucine zipper motif 1; DIP13; C88264; AI585782; AW209077; BB022931; 2900057D21Rik; 7330406P05Rik
Gene ID	72993
mRNA Refseq	NM_145221
Protein Refseq	NP_660256

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UniProt ID

Q8K3H0

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