

Product datasheet for **TP510175**

Appl1 (NM_145221) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 (Appl1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210175 representing NM_145221 Red =Cloning site Green =Tags(s)
	<p>MPGIDKLPHEETLEDSPQTRSLGVEEDATAISNYMNQLYQAMHRIYDAQNELSAATHLSKLLKEYEK QRFLPGDDDEVMSSTLQQFSKVIDELSSCHAVLSTQLADAMMFPIQSKERDLKEILTLKEVFQIASNDH DAAINRYSRLSKKRENDKVKYEVEDVYTSRKKQHQTMMHYFCALNTLQYKKKIALLEPLLGYMQAQISF FKMGSENNGQLEEFANIGTSVQNVRRMDGDVETMQQTIEDLEVASDPLYLPDPDPTKFPINRNLTRK AGYLNARNKTGLVSSTWDRQFYFTQGGNLSMQARGDVAGGLAMDIDNCSVMAVDCEDRRYCFQITSFD GK KSSILQAESKKDHEEWICTINNISKQIYLSNPEETAARVNQSALEAVTPSPSFQQRHESLRPGGQSRPP TARTSSGSLGSESTNLAALSLVAPDTPIQFDIISPVCEDQPGQAKAFGQGGRRTNPFGESGGSTKS ETEDSILHQLFIVRFLGSMEVKSDDHPDVVYETMRQILAARAIHNIFRMTESHLLVTCDCLKLIDPQTQV TRLTFPLPCVLYATHQENKRLFGFVLRRTSGGRSESNLSSVCYIFESNNEGEKICDSVGLAKQIALHAEL DRRASEKQKEIERVKEKQKELSKQKQIEKDLEEQSRLIAASSRPNQAGSEGQLVLSSSQSEESDLGEEG KKRESEA</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	79.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_660256</u>
Locus ID:	72993
UniProt ID:	<u>Q8K3H0</u>
RefSeq Size:	6961
Cytogenetics:	14 A3
RefSeq ORF:	2121
Synonyms:	2900057D21Rik; 7330406P05Rik; AI585782; AW209077; BB022931; C88264; DIP13
Summary:	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 (By similarity) (PubMed:25328665, PubMed:25568335, PubMed:27219021). Regulates signaling pathway leading to cell proliferation through interaction with RAB5A and subunits of the NuRD/MeCP1 complex (By similarity). Functions as a positive regulator of innate immune response via activation of AKT1 signaling pathway by forming a complex with APPL1 and PIK3R1 (PubMed:25328665). Inhibits Fc-gamma receptor-mediated phagocytosis through PI3K/Akt signaling in macrophages (PubMed:25568335). Regulates TLR4 signaling in activated macrophages (PubMed:27219021). 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 (By similarity). Required for fibroblast migration through HGF cell signaling (PubMed:26445298). 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 (By similarity).[UniProtKB/Swiss-Prot Function]