

Product datasheet for TP501636

Arf1 (NM_001130408) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ADP-ribosylation factor 1 (Arf1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR201636 protein sequence Red =Cloning site Green =Tags(s)
	MGNIFANLFKGLFGKEMRILMVGLDAAGKTTILYKLLKLGIVTTIPTIGFNVETVEYKNISFTVWDVGG QDKIRPLWRHYFQNTQGLIFVDSNDRERVNEAREELMRMLAEDELRLDAVLLVFANKQQLPNAMNAAEIT DKLGLHSLRHRNWYIQATCATSGDGLYEGLDWLSNQLRNQK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	20.7 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.
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_001123880</u>
Locus ID:	11840
UniProt ID:	<u>P84078</u>
RefSeq Size:	1991
Cytogenetics:	11 B1.3



[View online »](#)

RefSeq ORF: 546

Summary:

GTP-binding protein involved in protein trafficking among different compartments (PubMed:11950392). Modulates vesicle budding and uncoating within the Golgi complex. Deactivation induces the redistribution of the entire Golgi complex to the endoplasmic reticulum, suggesting a crucial role in protein trafficking. In its GTP-bound form, it triggers the association with coat proteins with the Golgi membrane. The hydrolysis of ARF1-bound GTP, which is mediated by ARFGAPs proteins, is required for dissociation of coat proteins from Golgi membranes and vesicles. The GTP-bound form interacts with PICK1 to limit PICK1-mediated inhibition of Arp2/3 complex activity; the function is linked to AMPA receptor (AMPA) trafficking, regulation of synaptic plasticity of excitatory synapses and spine shrinkage during long-term depression (LTD).[UniProtKB/Swiss-Prot Function]