

## Product datasheet for TP511294

### Copb1 (NM\_033370) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse coatomer protein complex, subunit beta 1 (Copb1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211294 representing NM_033370 <div> <div>Red</div>=Cloning site <div>Green</div>=Tags(s) </div> <p>MTAAENVCYTLINVPMDSEPPSEISLKNLEKGDVKSKEALKKVIIMILNGEKLPGLLMTIIRFVLPLQ  DHTIKLLLLVFEIVPKTTPDGRLLHEMILVCDAYRKDLQHPNEFIRGSTLRFLCKLKEAELLEPLMPAI  RACLEHRHSYVRRNAVLAIYTIYRNFEHLIPDAPELIHDFLVNEKDASCKRNAFMMLIHADQDRALDYL  TCIDQVQTFGDILQLVIVELIYKVCHANPSEARFIRCIYNLLQSSSPAVKYEAAGTLVTLSSAPTAIKA  AAQCYIDLIKESDNNVKLIVLDRVLVELKEHPAHERVLQDLVMDILRVLSTPDLEVRKKTLQLALDLVSS  RNVEELVIVLKKKEVIKTNNVSEHEDTDKYRQLLVRTLHSCSVRFPDMAANVIPVLMFELSDSNEAAAADV  LEFVREAIQRFDNLRMLIVEKMLEVFAIKSVKIYRGALWILGEYCSTKEDIQSVMTTEVRRSLGEIPIVE  SEIKKEAGELKPEEITVGPVQKLVTEMGTATQSAISSSRPTKKEEDRPPLRGFLLDGDFVFAASLATT  LTKIALRYVALVQEKKKQNSFVAEAMLLMATILHLGKSSLPKKPITDDVDRLSLCLKVLECSPLMNDI  FNKECRQSLSQMLSAKLEEEKLSQKKESEKRNVTVPDDPISFMQLTAKNEMNCKEDQFQLSLLAAMGN  T  QRKEAADPLASKLNKVTQLTGFSDPVYAEAYVHVNQYDIVLDVLVNQTSDTLQNCTLELATLGDLKLVE  KPSPLTLAPHDFANIKANVKVASTENGIIIFGNIVYDVSGAASDRNCVLSDIHIDIMDYIQPATCTDAEF  RQMWAEEFEWENKVTNTNMTDLNDYLQHILKSTNMKCLTPEKALSGYCGFMAANLYARSIFGEDALAN  VS  IEKPVHQGPDAAVTGHIRAKSQGMALSLGDKINLSQKKTSL</p> <div> <div>TR</div>TRPLE <div>EQ</div>KLISEEDLAANDILDYKDDDDKV </div>
Tag:	C-MYC/DDK
Predicted MW:	107.5 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


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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_203534</a></u>
<b>Locus ID:</b>	70349
<b>UniProt ID:</b>	<u><a href="#">Q9JIF7</a></u>
<b>RefSeq Size:</b>	3315
<b>Cytogenetics:</b>	7 59.31 cM
<b>RefSeq ORF:</b>	2859
<b>Synonyms:</b>	2610019B04Rik
<b>Summary:</b>	<p>The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins; the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors. Involved in the Golgi disassembly and reassembly processes during cell cycle. Involved in autophagy by playing a role in early endosome function. Plays a role in organellar compartmentalization of secretory compartments including endoplasmic reticulum (ER)-Golgi intermediate compartment (ERGIC), Golgi, trans-Golgi network (TGN) and recycling endosomes, and in biosynthetic transport of CAV1 (By similarity). Plays a functional role in facilitating the transport of kappa-type opioid receptor mRNAs into axons and enhances translation of these proteins in cortical neurons. Required for limiting lipid storage in lipid droplets. Involved in lipid homeostasis by regulating the presence of perilipin family members PLIN2 and PLIN3 at the lipid droplet surface and promoting the association of adipocyte triglyceride lipase (PNPLA2) with the lipid droplet surface to mediate lipolysis.[UniProtKB/Swiss-Prot Function]</p>