

Product datasheet for PH304401

TBC1D5 (NM_014744) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TBC1D5 MS Standard C13 and N15-labeled recombinant protein (NP_055559)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204401
Predicted MW:	89 kDa
Protein Sequence:	>RC204401 protein sequence Red =Cloning site Green =Tags(s)

MYHSLSETRHPLQPEEQEVGIDPLSSYSNKGSGDSNKNRRTSSTLDSEGTFSYRKEWEELFVNNNYLA
 TIRQKINGQLRSSRFRSICWKLFLCVLPQDKSQWISRIEELRAWYSNIKEIHITNPRKVVGQDLMINN
 PLSQDEGSLWNKFFQDKELRSMIEQDVKRTFPEMQFFQQENVRKILTDVLCYARENEQLLYKQGMHELL
 APIVFLHCDHQAFLHASESAQPSEEMKTVLNPEYLEHDAYAVFSQLMETAEPWFSTFEHDGQKGKETLM
 TPIPFARPQDLGPTIAIVTKVNIQDHLKKHDIELYMHLNRLEIAPQIYGLRWVRLFGREFPLQDLLV
 VWDALFADGLSLGLVDYIFVAMLLYIRDALISSNYQTCLGMLMHYPFIGDVHSLILKALFLRDPKRNPRP
 VTYQFHPNLDYYKARGADLMNKSRTNAKGAPLNINKVSNLSINFGRLISPAMAPGSAGGPVPGGNSSSS
 SSVVIPTRTSAEAPSHHLQQQQQQRLMKSEMPVQLNKGLSSKNISSSPSVESLPGGREFTGSPSSAT
 KKDSFFSNISRSRSHSKTMGRKESEEELEAQISFLQGQLNDLDAMCKYCAKVMMDTHLVNIQDVILQENLE
 KEDQILVSLAGLKQIKDILKGSRLFNQSQLEAEENEQITIADNHYCSSGQGGRGQGSVQMSGAIKQAS
 SETPGCTDRGNSDDFILISKDDGSSARGSGGQAQPLRTLSTSGKSQAPVCSPLVFSDPLMGPASASS
 SNPSSSPDDSSKDSGFTIVSPLDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_055559


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RefSeq Size: 7869

RefSeq ORF: 2385

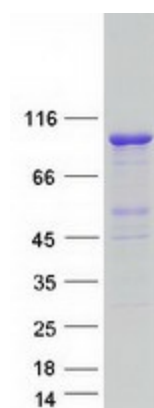
Locus ID: 9779

UniProt ID: [Q92609](#), [B9A6K1](#)

Cytogenetics: 3p24.3

Summary: May act as a GTPase-activating protein (GAP) for Rab family protein(s). May act as a GAP for RAB7A. Can displace RAB7A and retromer CSC subcomplex from the endosomal membrane to the cytosol; at least retromer displacement seems to require its catalytic activity (PubMed:19531583, PubMed:20923837). Required for retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN); the function seems to require its catalytic activity. Involved in regulation of autophagy (PubMed:22354992). May act as a molecular switch between endosomal and autophagosomal transport and is involved in reprogramming vesicle trafficking upon autophagy induction. Involved in the trafficking of ATG9A upon activation of autophagy. May regulate the recruitment of ATG9A-AP2-containing vesicles to autophagic membranes (PubMed:24603492).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified TBC1D5 protein (Cat# [TP304401]). The protein was produced from HEK293T cells transfected with TBC1D5 cDNA clone (Cat# [RC204401]) using MegaTran 2.0 (Cat# [TT210002]).