

Product datasheet for PH326171

TBC1D5 (NM_001134380) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | TBC1D5 MS Standard C13 and N15-labeled recombinant protein (NP_001127852) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC226171 |
| Predicted MW: | 89 kDa |
| Protein Sequence: | >RC226171 protein sequence Red=Cloning site Green=Tags(s) |

MYHSLSETRHPLQPEEQEVGIDPLSSYSNKSGGDSNKNRRTSSTLDSEGTFNYSRKEWEELFVNNNYLA
TIRQKINGQLRSSRFRSICWKLFLCVLPQDKSQWISRIEELRAWYSNIKEIHITNPRKVVGGQDLMINN
PLSQDEGSLWNKFFQDKELRSMIEQDVKRTFPEMQFFQQENVRKILTDVLCYARENEQLLYKQGMHELL
APIVFLHCDHQAFHASESAQPSEEMKTVLNPEYLEHDAYAVFSQLMETAEPWFSTFEHDGQKQKGTLM
TPIPFARPDGPTIAIVTKVNQIQDHLKHKHDIELYMHLNRLEIAPQIYGLRWVRLFLGREFPLQDLLV
VWDALFADGLSLGLVDYIFVAMLLYIRDALISSNYQTCLGMLMHYPFIGDVHSLILKALFLRDPKRNPRP
VTYQFHPNLDYKARGADLMNKSRTNAKGAPLNINKVSNLSINFGGRKLISPAAPGSAGGPVPGGNSSSS
SSVVIPTRTSAEAPSHHLQQQQQQRLMKSEMPVQLNKGLSSKNISSSPSVESLPGGREFTGSPSSAT
KKDSFFSNI SRSRSHSKTMGRKESEEELEAQISFLQGLNDLDAMCKYCAKVM DTHLVNIQDVILQENLE
KEDQILVSLAGLKQIKDILKGLSRFNQSQLEAEENEQIT IADNHYCSSGQGGQGGQSQVMSGAIKQAS
SETPGCTDRGNSDDF ILISKDDDGSSARGFSGQAQPLRTRSTSGKSQAPVCSPLVFS DPLMGPASASS
SNPSSSPDDSSKDSGFTIVSPLDI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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| 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_001127852 |

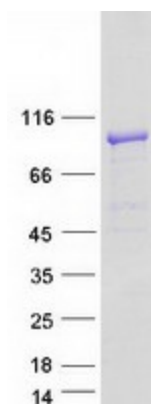


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| | |
|---------------|------------------------|
| RefSeq Size: | 6631 |
| RefSeq ORF: | 2385 |
| Synonyms: | KIAA0210 |
| Locus ID: | 9779 |
| UniProt ID: | Q92609 |
| Cytogenetics: | 3p24.3 |

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# [TP326171]). The protein was produced from HEK293T cells transfected with TBC1D5 cDNA clone (Cat# [RC226171]) using MegaTran 2.0 (Cat# [TT210002]).