

Recombinant Mouse Tbc1d5 Protein, Myc/DDK-tagged

Cat. No. Tbc1d5-6309M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length TBC1 domain family, member 5 (Tbc1d5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	May act as a GTPase-activating protein 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. 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. 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.
Molecular Mass	92.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Tbc1d5 TBC1 domain family, member 5 [Mus musculus (house mouse)]
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Official Symbol	Tbc1d5
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Synonyms	Tbc1d5; TBC1 domain family, member 5; 1600014N05Rik; TBC1 domain family member 5
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Gene ID	72238
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mRNA Refseq	NM_028162
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Protein Refseq	NP_082438
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UniProt ID	Q80XQ2
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