Carabin Blocking Peptide

PRODUCT OVERVIEW

Product Name	Carabin (TBC1D10C), Blocking Peptide
Full Product Name	Carabin Peptide
Product Gene Name	TBC1D10C blocking peptide
Product Synonym Names	EPI64C; CARABIN; Carabin; TBC1 domain family member 10C; TBC1 domain family, member 10C
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store Carabin peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	Carabin peptide (MBS152068) is used for blocking the activity of Carabin antibody (MBS150657)
Molecular Weight	32,887 Da
OMIM	610831
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	16 amino acids near the carboxy terminus of human Carabin.
Applications Tested/Suitable for TBC1D10C blocking peptide	Blocking (BL)
Application Notes for TBC1D10C blocking peptide	Carabin peptide is used for blocking the activity of Carabin antibody.
Related Product Information for TBC1D10C blocking peptide	MBS152068 is a blocking peptide targeting TBC1D10C. Also known as Carabin Peptide.
Other Notes	Small volumes of TBC1D10C blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TBC1D10C. It may not necessarily be applicable to this product.

NCBI GI #	38348348
NCBI GeneID	374403
NCBI Accession #	NP_940919
UniProt Primary Accession #	Q8IV04
UniProt Secondary Accession #	G3V1D6
UniProt Related Accession #	Q8IV04
GenBank Nucleotide #	NM_198517.3
NCBI Official Full Name	carabin isoform 1

NCBI Official Synonym Full Names	TBC1 domain family, member 10C
NCBI Official Symbol	TBC1D10C
NCBI Official Synonym Symbols	EPI64C; CARABIN
UniProt Protein Name	Carabin
UniProt Synonym Protein Names	TBC1 domain family member 10C
Protein Family	Carabin
UniProt Gene Name	TBC1D10C
UniProt Entry Name	TB10C_HUMAN
NCBI Protein Information	carabin
NCBI Summary for TBC1D10C	The protein encoded by this gene has an N-terminal Rab-GTPase domain and a binding site at the C-terminus for calcineurin, and is an inhibitor of both the Ras signaling pathway and calcineurin, a phosphatase regulated by calcium and calmodulin. Genes encoding similar proteins are located on chromosomes 16 and 22. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2013]
UniProt Comments for TBC1D10C	TBC1D10C: Inhibits the Ras signaling pathway through its intrinsic Ras GTPase-activating protein (GAP) activity. Acts as a negative feedback inhibitor of the calcineurin signaling pathway that also mediates crosstalk between calcineurin and Ras. Protein type: GAPs; GAPs, Rab Chromosomal Location of Human Ortholog: 11q13.2 Cellular Component: filopodium membrane; membrane; plasma membrane Biological Process: negative regulation of B cell activation; negative regulation of NFAT protein import into nucleus; retrograde transport, endosome to Golgi
Research Articles on TBC1D10C	**1.** Carabin as a new negative regulator of B-cell function, whose deficiency in B cells speeds up early B-cell responses
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