CENTG1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CENTG1, Blocking Peptide
Full Product Name	CENTG1 Peptide - middle region
Product Gene Name	CENTG1 blocking peptide
Product Synonym Gene Name	AGAP2; FLJ16430; GGAP2; KIAA0167; PIKE; CENTG1
Sequence	AHARHGPLDT SVEDPQLRSP LHLAAELAHV VITQLLLWYG ADVAARDAQG
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	CENTG1 peptide (MBS3235702) is used for blocking the activity of CENTG1 antibody (MBS3210747)
Molecular Weight	90kDa
OMIM	605476
Product Categories/Family for CENTG1 blocking peptide	Peptide
Applications Tested/Suitable for CENTG1 blocking peptide	Western Blot (WB)
Related Product Information for CENTG1 blocking peptide	CENTG1 is a GTPase-activating protein (GAP) for ARF1 and ARF5, which also shows strong GTPase activity. Isoform 1 participates in the prevention of neuronal apoptosis by enhancing PI3 kinase activity. It aids the coupling of metabotropic glutamate receptor 1 (GRM1) to cytoplasmic PI3 kinase by interacting with Homer scaffolding proteins, and also seems to mediate anti-apoptotic effects of NGF by activating nuclear PI3 kinase. Isoform 2 does not stimulate PI3 kinase but may protect cells from apoptosis by stimulating Akt. It also regulates the adapter protein 1 (AP-1)-dependent trafficking of proteins in the endosomal system. It seems to be oncogenic. It is overexpressed in cancer cells, prevents apoptosis and promotes cancer cell invasion.
Other Notes	Small volumes of CENTG1 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.
Searchable Terms for CENTG1 purchase	MBS3235702 is a blocking peptide targeting CENTG1. Also known as CENTG1 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CENTG1. It may not necessarily be applicable to this product.

NCBI GI #	7661962
NCBI GeneID	116986
NCBI Accession #	NP_055585
UniProt Primary Accession #	Q99490
UniProt Related Accession #	Q99490
GenBank Nucleotide #	NM_014770

NCBI Official Full Name	arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2 isoform PIKE-A
NCBI Official Synonym Full Names	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2
NCBI Official Symbol	AGAP2
NCBI Official Synonym Symbols	PIKE; GGAP2; CENTG1
UniProt Protein Name	Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2
UniProt Synonym Protein Names	Centaurin-gamma-1; Cnt-g1; GTP-binding and GTPase-activating protein 2; GGAP2; Phosphatidylinositol 3-kinase enhancer; PIKE
UniProt Gene Name	AGAP2
UniProt Synonym Gene Names	CENTG1; KIAA0167; AGAP-2; Cnt-g1; GGAP2; PIKE
UniProt Entry Name	AGAP2_HUMAN
NCBI Protein Information	arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2
NCBI Summary for CENTG1	The protein encoded by this gene belongs to the centaurin gamma-like family. It mediates anti-apoptotic effects of nerve growth factor by activating nuclear phosphoinositide 3-kinase. It is overexpressed in cancer cells, and promotes cancer cell invasion. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]
UniProt Comments for CENTG1	CENTG1: a member of the centaurin family of ADP-ribosylation factor directed GTPase-activating proteins (GAPs). A GAP for ARF1 and ARF5. Two alternatively-spliced isoforms have been described. Isoform 1 is brain-specific, and isoform 2 is ubiquitously expressed, with highest levels in brain and heart. Isoform 1 participates to the prevention of neuronal apoptosis by enhancing PI3 kinase activity. It aids the coupling of metabotropic glutamate receptor 1 (GRM1) to cytoplasmic PI3 kinase by interacting with Homer scaffolding proteins, and also seems to mediate anti-apoptotic effects of NGF by activating nuclear PI3 kinase. Isoform 2 does not stimulate PI3 kinase but may protect cells from apoptosis by stimulating Akt. Regulates the adapter protein 1 (AP-1)-dependent trafficking of proteins in the endosomal system. The PH domains of isoforms 1 and 2 bind phospholipids, but they differentially regulate subcellular location. The PH domain of isoform 1 directs the protein to the nucleus, but the PH domain of isoform 2 directs it to the cytosol. Protein type: Motility/polarity/chemotaxis; GAPs; GAPs, ARF; Tumor suppressor Chromosomal Location of Human Ortholog: 12q14.1 Cellular Component: membrane; mitochondrion; nucleolus; nucleus Molecular Function: protein binding; GTP binding; zinc ion binding Biological Process: axon guidance; protein transport; small GTPase mediated signal transduction; negative regulation of neuron apoptosis; negative regulation of protein catabolic process; positive regulation of GTPase activity
Research Articles on CENTG1	**1.** A pleckstrin homology domain in PIKE-L directly binds alpha-synuclein and antagonizes its aggregation. Accordingly, PIKE-L overexpression decreases dopaminergic cell death elicited by MPP(+), whereas PIKE-L knockdown elevates alpha-synuclein oligomerization and cell death.
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