PLEKHG2 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	PLEKHG2, Blocking Peptide
Full Product Name	PLEKHG2 Peptide - middle region
Product Gene Name	PLEKHG2 blocking peptide
Product Synonym Gene Name	CLG; DKFZp667J2325; FLJ00018; FLJ22458; FLJ38638; ARHGEF42
Sequence	DLTIPKHRHL LQAKNQEEKR LWIHCLQRLF FENHPASIPA KAKQVLLENS
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	PLEKHG2 peptide (MBS3239369) is used for blocking the activity of PLEKHG2 antibody (MBS3214432)
Molecular Weight	144kDa
OMIM	AK024429 mRNA
Product Categories/Family for PLEKHG2 blocking peptide	Peptide
Applications Tested/Suitable for PLEKHG2 blocking peptide	Western Blot (WB)
Related Product Information for PLEKHG2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-PLEKHG2 Antibody, made Target Description: PLEKHG2 may be a transforming oncogene with exchange activity for CDC42. PLEKHG2 may be a guanine-nucleotide exchange factor (GEF) for RAC1 and CDC42.PLEKHG2 activated by the binding to subunits beta and gamma of the heterotrimeric guanine nucleotide-binding protein (G protein).
Other Notes	Small volumes of PLEKHG2 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 PLEKHG2 purchase	MBS3239369 is a blocking peptide targeting PLEKHG2. Also known as PLEKHG2 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLEKHG2. It may not necessarily be applicable to this product.

NCBI GI #	164565408
NCBI GeneID	64857
NCBI Accession #	NP_073746
UniProt Primary Accession #	Q9H7P9
UniProt Related Accession #	Q9H7P9
GenBank Nucleotide #	NM_022835
NCBI Official Full Name	pleckstrin homology domain-containing family G member 2 isoform 1

NCBI Official Synonym Full Names	pleckstrin homology and RhoGEF domain containing G2
NCBI Official Symbol	PLEKHG2
NCBI Official Synonym Symbols	CLG; LDAMD; ARHGEF42; CTB-60E11.4
UniProt Protein Name	Pleckstrin homology domain-containing family G member 2
Protein Family	Pleckstrin homology domain-containing family
UniProt Gene Name	PLEKHG2
UniProt Synonym Gene Names	PH domain-containing family G member 2
NCBI Protein Information	pleckstrin homology domain-containing family G member 2
NCBI Summary for PLEKHG2	The protein encoded by this gene is a RhoGTPase that can activate CDC42 by promoting exchange of GDP for GTP on CDC42. The encoded protein is activated by binding to the beta and gamma subunits of heterotrimeric guanine nucleotide-binding protein. Defects in this gene have been associated with leukodystrophy and acquired microcephaly with or without dystonia. [provided by RefSeq, May 2017]
UniProt Comments for PLEKHG2	PLEKHG2: May be a transforming oncogene with exchange activity for CDC42. May be a guanine-nucleotide exchange factor (GEF) for RAC1 and CDC42. Activated by the binding to subunits beta and gamma of the heterotrimeric guanine nucleotide- binding protein (G protein). 3 isoforms of the human protein are produced by alternative splicing. Protein type: GEF; GEF, misc.; Tumor suppressor Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: cytosol Molecular Function: guanyl-nucleotide exchange factor activity; Rho guanyl-nucleotide exchange factor activity Biological Process: positive regulation of apoptosis; positive regulation of GTPase activity; regulation of actin filament polymerization; regulation of Rho protein signal transduction; regulation of small GTPase mediated signal transduction Disease: Leukodystrophy And Acquired Microcephaly With Or Without Dystonia
Research Articles on PLEKHG2	**1.** This is the first report to show that PLEKHG2 is a novel effector of Galphas, and is negatively regulated by the Galphas subunit through direct interaction.
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