HOMER3 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	HOMER3, Blocking Peptide
Full Product Name	HOMER3 Peptide - C-terminal region
Product Gene Name	HOMER3 blocking peptide
Product Synonym Gene Name	HOMER-3; VESL3
Sequence	HQLRAMERSL EEARAERERA RAEVGRAAQL LDVSLFELSE LREGLARLAE
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	HOMER3 peptide (MBS3240417) is used for blocking the activity of HOMER3 antibody (MBS3215514)
Molecular Weight	39kDa
OMIM	604800
Product Categories/Family for HOMER3 blocking peptide	Peptide
Applications Tested/Suitable for HOMER3 blocking peptide	Western Blot (WB)
Related Product Information for HOMER3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-HOMER3 Antibody, made Target Description: This gene encodes a member of the HOMER family of postsynaptic density scaffolding proteins that share a similar domain structure consisting of an N-terminal Enabled/vasodilator-stimulated phosphoprotein homology 1 domain which mediates protein-protein interactions, and a carboxy-terminal coiled-coil domain and two leucine zipper motifs that are involved in self-oligomerization. The encoded protein binds numerous other proteins including group I metabotropic glutamate receptors, inositol 1,4,5-trisphosphate receptors and amyloid precursor proteins and has been implicated in diverse biological functions such as neuronal signaling, T-cell activation and trafficking of amyloid beta peptides. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of HOMER3 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 HOMER3 purchase	MBS3240417 is a blocking peptide targeting HOMER3. Also known as HOMER3 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HOMER3. It may not necessarily be applicable to this product.

NCBI GI #	224809410
NCBI GeneID	9454
NCBI Accession #	NP_001139193
UniProt Primary Accession #	Q9NSC5
UniProt Related Accession #	Q9NSC5

GenBank Nucleotide #	NM_001145721
NCBI Official Full Name	homer protein homolog 3 isoform 2
NCBI Official Synonym Full Names	homer scaffold protein 3
NCBI Official Symbol	HOMER3
NCBI Official Synonym Symbols	VESL3; HOMER-3
UniProt Protein Name	Homer protein homolog 3
Protein Family	Homer protein
UniProt Gene Name	HOMER3
UniProt Synonym Gene Names	Homer-3
UniProt Entry Name	HOME3_HUMAN
NCBI Protein Information	homer protein homolog 3
NCBI Summary for HOMER3	This gene encodes a member of the HOMER family of postsynaptic density scaffolding proteins that share a similar domain structure consisting of an N-terminal Enabled/vasodilator-stimulated phosphoprotein homology 1 domain which mediates protein-protein interactions, and a carboxy-terminal coiled-coil domain and two leucine zipper motifs that are involved in self-oligomerization. The encoded protein binds numerous other proteins including group I metabotropic glutamate receptors, inositol 1,4,5-trisphosphate receptors and amyloid precursor proteins and has been implicated in diverse biological functions such as neuronal signaling, T-cell activation and trafficking of amyloid beta peptides. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]
UniProt Comments for HOMER3	HOMER3: Postsynaptic density scaffolding protein. Binds and cross-links cytoplasmic regions of GRM1, GRM5, ITPR1, DNM3, RYR1, RYR2, SHANK1 and SHANK3. By physically linking GRM1 and GRM5 with ER-associated ITPR1 receptors, it aids the coupling of surface receptors to intracellular calcium release. Isoforms can be differently regulated and may play an important role in maintaining the plasticity at glutamatergic synapses. Belongs to the Homer family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 19p13.11 Cellular Component: postsynaptic membrane; cytoplasm; plasma membrane; cell junction; cytosol Molecular Function: protein C-terminus binding; protein domain specific binding; protein binding; metabotropic glutatmate receptor binding Biological Process: metabotropic glutamate receptor signaling pathway; protein targeting
Research Articles on HOMER3	**1.** Homer3 acts as a scaffold that spatially organizes actin assembly to support neutrophil polarity and motility downstream of GPCR activation.
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