Phospho-DEPDC5 (Ser1002) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	DEPDC5, Blocking Peptide
Full Product Name	Phospho-DEPDC5 (Ser1002) Blocking Peptide
Product Gene Name	DEPDC5 blocking peptide
Product Synonym Names	DEP domain containing 5; DEP domain-containing protein 5; DEP.5; DEPD5_HUMAN; DEPDC5; FFEVF; KIAA0645
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	DEPDC5 (Ser1002) peptide (MBS9619495) is used for blocking the activity of DEPDC5 (Ser1002) antibody (MBS9614533)
Molecular Weight	177,910 Da
OMIM	604364
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DEPDC5 blocking peptide	Blocking/Control
Related Product Information for DEPDC5 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of DEPDC5 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 DEPDC5 purchase	MBS9619495 is a blocking peptide targeting DEPDC5. Also known as Phospho-DEPDC5 (Ser1002) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DEPDC5. It may not necessarily be applicable to this product.

NCBI GI #	510120820
NCBI GeneID	9681
NCBI Accession #	O75140.2
UniProt Primary Accession #	O75140

UniProt Secondary Accession #	Q5K3V5; Q5THY9; Q5THZ0; Q5THZ1; Q5THZ3; Q68DR1; Q6MZX3; A6H8V6; A8MPX9; B4DH93; B9EGN9
UniProt Related Accession #	O75140
NCBI Official Full Name	DEP domain-containing protein 5
NCBI Official Synonym Full Names	DEP domain containing 5
NCBI Official Symbol	DEPDC5
NCBI Official Synonym Symbols	DEP.5; FFEVF
UniProt Protein Name	DEP domain-containing protein 5
Protein Family	DEP domain-containing protein
UniProt Gene Name	DEPDC5
UniProt Synonym Gene Names	KIAA0645
UniProt Entry Name	DEPD5_HUMAN
NCBI Protein Information	DEP domain-containing protein 5
NCBI Summary for DEPDC5	This gene encodes a member of the IML1 family of proteins involved in G-protein signaling pathways. The mechanistic target of rapamycin complex 1 (mTORC1) pathway regulates cell growth by sensing the availability of nutrients. The protein encoded by this gene is a component of the GATOR1 (GAP activity toward Rags) complex which inhibits the amino acid-sensing branch of the mTORC1 pathway. Mutations in this gene are associated with autosomal dominant familial focal epilepsy with variable foci. A single nucleotide polymorphism in an intron of this gene has been associated with an increased risk of hepatocellular carcinoma in individuals with chronic hepatitis C virus infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]
UniProt Comments for DEPDC5	DEPDC5: Belongs to the IML1 family. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Unknown function Chromosomal Location of Human Ortholog: 22q12.3 Cellular Component: cytosol; lysosomal membrane; lysosome; perinuclear region of cytoplasm Molecular Function: GTPase activator activity; protein complex binding Biological Process: cellular response to amino acid starvation; negative regulation of TOR signaling pathway; positive regulation of GTPase activity Disease: Epilepsy, Familial Focal, With Variable Foci
Research Articles on DEPDC5	**1.** This study found a single DEPDC5 mutation in one of (2.2%) 45 families with genetic temporal lobe epilepsy, a proportion much lower than that reported in other inherited focal epilepsies.
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