# DEPD5 Antibody (C-Term) Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | DEPD5 (DEPDC5), Blocking Peptide |
| **Full Product Name** | DEPD5 Antibody (C-term) Blocking peptide |
| **Product Gene Name** | DEPDC5 blocking peptide |
| **Product Synonym Gene Name** | KIAA0645 |
| **Product Synonym Names** | DEP domain-containing protein 5; DEPDC5; KIAA0645 |
| **Form/Format** | The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml. |
| **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** | DEPD5 peptide (MBS9218794) is used for blocking the activity of DEPD5 antibody (MBS9207358) |
| **Molecular Weight** | 177,910 Da |
| **OMIM** | 604364 |
| **Cellular Location** | Cytoplasm, cytosol. Cytoplasm, perinuclear region |
| **Tissue Location** | Expressed in developing and adult brain. |
| **Related Product Information for DEPDC5 blocking peptide** | As a component of the GATOR1 complex, inhibitor of the amino acid-sensing branch of the TORC1 pathway. The GATOR1 complex strongly increases GTP hydrolysis by RRAGA and RRAGB within RRAGC- containing heterodimers, thereby deactivating RRAGs, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling. |
| **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** | MBS9218794 is a blocking peptide targeting DEPDC5. Also known as DEPD5 Antibody (C-term) Blocking peptide. |

## ADDITIONAL DETAILS

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

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| **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 |

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| **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.<br><br>Protein type: Unknown function<br><br>Chromosomal Location of Human Ortholog: 22q12.3<br><br>Cellular Component: cytosol; lysosomal membrane; lysosome; perinuclear region of cytoplasm<br><br>Molecular Function: GTPase activator activity; protein complex binding<br><br>Biological Process: cellular response to amino acid starvation; negative regulation of TOR signaling pathway<br><br>Disease: Epilepsy, Familial Focal, With Variable Foci |
| **Research Articles on DEPDC5** | **1.** DEPDC5 variants increase fibrosis progression in European subjects with chronic HCV infection. Our findings suggest that DEPDC5 down-regulation may contribute to HCV-related fibrosis by increasing MMP2 synthesis through the beta-catenin pathway |
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