PEA15 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	PEA15, Blocking Peptide
Full Product Name	PEA15 Blocking Peptide
Product Gene Name	PEA15 blocking peptide
Product Synonym Names	Astrocytic phosphoprotein PEA-15; 15 kDa phosphoprotein enriched in astrocytes; Phosphoprotein enriched in diabetes; PED
Host	Synthetic
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	PEA15 peptide (MBS8244037) is used for blocking the activity of PEA15 antibody (MBS8242393)
Molecular Weight	17,307 Da
OMIM	603434
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for PEA15 blocking peptide	Blocking (BL)
Application Notes for PEA15 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for PEA15 blocking peptide	MBS8244037 is a blocking peptide targeting PEA15. Reactive in Human, Mouse, Rat. Host: Synthetic. The peptide is used to block Anti-PEA15 Antibody reactivity.
Other Notes	Small volumes of PEA15 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PEA15. It may not necessarily be applicable to this product.

NCBI GI #	32470612
NCBI GeneID	8682
NCBI Accession #	Q15121.2
UniProt Primary Accession #	Q15121
UniProt Secondary Accession #	O00511; B1AKZ3
UniProt Related Accession #	Q15121
NCBI Official Full Name	Astrocytic phosphoprotein PEA-15
NCBI Official Synonym Full Names	phosphoprotein enriched in astrocytes 15

NCBI Official Symbol	PEA15
NCBI Official Synonym Symbols	PED; MAT1; HMAT1; MAT1H; PEA-15; HUMMAT1H
UniProt Protein Name	Astrocytic phosphoprotein PEA-15
UniProt Synonym Protein Names	15 kDa phosphoprotein enriched in astrocytes; Phosphoprotein enriched in diabetes; PED
Protein Family	Astrocytic phosphoprotein
UniProt Gene Name	PEA15
UniProt Synonym Gene Names	PED
UniProt Entry Name	PEA15_HUMAN
NCBI Protein Information	astrocytic phosphoprotein PEA-15
NCBI Summary for PEA15	This gene encodes a death effector domain-containing protein that functions as a negative regulator of apoptosis. The encoded protein is an endogenous substrate for protein kinase C. This protein is also overexpressed in type 2 diabetes mellitus, where it may contribute to insulin resistance in glucose uptake. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
UniProt Comments for PEA15	PEA-15: an ubiquitously expressed anti-apoptotic protein. Inhibits both Fas- and Tnfrsf1a/Tnfr1-mediated caspase-8 activity and apoptosis. Interacts with CASP8/FLICE and FADD. Regulates glucose transport by controlling both the content of GLUT1 glucose transporters on the plasma membrane and the insulin-dependent trafficking of GLUT4 from the cell interior to the surface. Most abundant in tissues such as heart, brain, muscle and adipose tissue which utilize glucose as an energy source. Lower expression in glucose-producing tissues. Higher levels of expression are found in tissues from individuals with type 2 diabetes than in controls. Protein type: Motility/polarity/chemotaxis; Apoptosis Chromosomal Location of Human Ortholog: 1q21.1 Cellular Component: cytosol; microtubule associated complex Molecular Function: protein binding Biological Process: activation of MAPK activity; activation of MAPKK activity; apoptosis; axon guidance; carbohydrate transport; DNA damage checkpoint; epidermal growth factor receptor signaling pathway; fibroblast growth factor receptor signaling pathway; innate immune response; insulin receptor signaling pathway; MAPKKK cascade; negative regulation of glucose import; nerve growth factor receptor signaling pathway; Ras protein signal transduction; response to morphine; small GTPase mediated signal transduction; transport; vascular endothelial growth factor receptor signaling pathway
Research Articles on PEA15	**1.** High PED expression is associated with esophageal carcinoma.
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