PEA-15 ELISA Kit for Human, Mouse, Rat

PRODUCT OVERVIEW

Product Name	PEA-15, ELISA Kit
Full Product Name	Phospho-PEA-15 (Ser116) Colorimetric Cell-Based ELISA Kit
Product Gene Name	PEA-15 elisa kit
Product Synonym Gene Name	PEA15
Product Synonym Names	Astrocytic phosphoprotein PEA-15; PE15; PEA15; PED; Phosphoprotein enriched in diabetes
Species Reactivity	Human, Mouse, Rat
Assay Type	Phospho Cell-Based ELISA
Samples	Researchers plate their cell line of choice
Sensitivity	>=5000 cells/well
Form/Format	Two 96-Well Plates
Preparation and Storage	Store at 4 degree C.
Molecular Weight	15040
OMIM	X86809 mRNA
3D Structure	ModBase 3D Structure for Q15121
Reactivity Note	Human: S116, Mouse: S116, Rat: S116
Detection Method	Colorimetric 450 nm
Product Categories/Family for PEA-15 elisa kit	Cell Based ELISA Kit
Related Product Information for PEA-15 elisa kit	MBS9501142 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the PEA-15, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PEA-15. The ELISA analytical biochemical technique of the MBS9501142 kit is based on PEA-15 antibody-PEA-15 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PEA-15 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PEA-15. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of PEA-15 elisa kit 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 PEA-15. It may not necessarily be applicable to this product.

NCBI GI #	662033922
NCBI GeneID	8682
NCBI Accession #	NP_001284505.1
UniProt Primary Accession #	Q15121

UniProt Secondary Accession #	O00511; B1AKZ3
UniProt Related Accession #	Q15121
GenBank Nucleotide #	NM_001297576.1
NCBI Official Full Name	astrocytic phosphoprotein PEA-15 isoform a
NCBI Official Synonym Full Names	proliferation and apoptosis adaptor protein 15
NCBI Official Symbol	PEA15
NCBI Official Synonym Symbols	PED; MAT1; HMAT1; MAT1H; PEA-15; HUMMAT1H; PED-PEA15; PED/PEA15
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
NCBI Protein Information	astrocytic phosphoprotein PEA-15
NCBI Summary for PEA-15	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 PEA-15	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: Apoptosis; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 1q23.2 Cellular Component: cytosol; microtubule associated complex; nucleus Molecular Function: protein binding Biological Process: activation of MAPK activity; apoptosis; carbohydrate transport; DNA damage checkpoint; MAPK cascade; negative regulation of extrinsic apoptotic signaling pathway via death domain receptors; negative regulation of glucose import; positive regulation of extrinsic apoptotic signaling pathway via death domain receptors; response to morphine; transport
Research Articles on PEA-15	**1.** PP4 regulates breast cancer cell survival and identifies a novel PP4c-PEA15 signalling axis in the control of breast cancer cell survival.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-mouse-rat-elisa-kits/pea-15/9501142