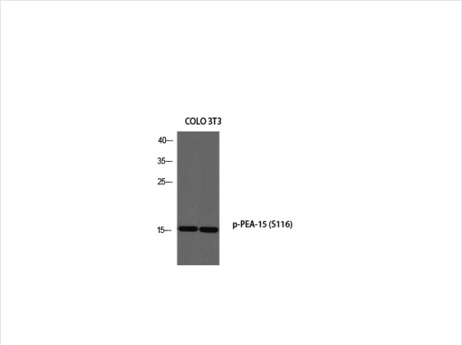
PEA-15 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PEA-15, Polyclonal Antibody
Full Product Name	Phospho-PEA-15 (Ser116) Polyclonal Antibody
Product Gene Name	anti-PEA-15 antibody
Product Synonym Names	PEA15; Astrocytic phosphoprotein PEA-15; 15 kDa phosphoprotein enriched in astrocytes; Phosphoprotein enriched in diabetes; PED
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Monkey
Purity/Purification	Affinity Purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated Molecular Weight: 15kDa Observed Molecular Weight: 15kDa
OMIM	X86809 mRNA
3D Structure	ModBase 3D Structure for Q15121
Immunogen	Synthesized peptide derived from human PEA-15 around the phosphorylation site of Ser116
Buffer	PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol, pH7.4
Conjugation	Unconjugated
Product Categories/Family for anti-PEA-15 antibody	Acetyl/Phospho/Methyl Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PEA-15 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin, ELISA (EIA)
Application Notes for anti-PEA-15 antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 ELISA: 1:5000
Related Product Information for anti-PEA-15 antibody	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.
Other Notes	Small volumes of anti-PEA-15 antibody 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 PEA-15 purchase	MBS2548836 is an antibody targeting PEA-15. Also known as Phospho-PEA-15 (Ser116) Polyclonal Antibody. Reactive in Human, Mouse, Rat, Monkey. Host: Rabbit.



Western Blot (WB) of anti-PEA-15 antibody
Western Blot analysis of COLO205, 3T3 cells with Phospho-PEA-15 (Ser116) Polyclonal Antibody at dilution of 1:500

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

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.
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