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Rabbit Anti-Phospho-PEA15 (Ser104)/Cy5 Conjugated antibody

SL3328R-Cy5

Product Name	Anti-Phospho-PEA15 (Ser104)/Cy5
Chinese Name	Cy5 标记的磷酸化星形胶质细胞 PEA15 抗体
Alias	PEA15(Phospho Ser104); PEA15 (Phospho-S104); p-PEA15 (Ser104); Astrocytic phosphoprotein PEA 15; Astrocytic phosphoprotein PEA15; HMAT 1; HMAT1; Homolog of mouse MAT 1 oncogene; Homolog of mouse MAT1 oncogene; HUMMAT 1H; HUMMAT1H; MAT 1; MAT 1H; MAT1; MAT1H; PEA 15; PEA-15； PEA15 protein; PED; Phosphoprotein enriched in astrocytes 15; Phosphoprotein enriched in astrocytes 15kD; Phosphoprotein enriched in diabetes.
Product Type	Phosphorylated anti
Research Area	immunology Neurobiology Apoptosis transcriptional regulatory factor Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Dog,Cow,Rabbit)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	15kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated Synthesised phosphopeptide derived from human PEA15 around the phosphorylation site of Ser104
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH

7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Product Detail

background:
PED/PEA 15 (Phosphoprotein Enriched in Diabetes/Phosphoprotein Enriched in Astrocytes 15 kDa) is a widely expressed 15 kDa protein comprised of an N terminal region containing a canonical Death Effector Domain (DED) sequence and a nuclear export signal, and a C terminal region containing two serine phosphorylation sites. PED/PEA 15 has been implicated in the regulation of multiple cellular processes including apoptosis, integrin activation, and insulin sensitive glucose transport in insulin responsive cells. Phosphorylation of both serine 104 (a Protein Kinase C site) and serine 116 (a substrate of CaMKII and Akt) is required for PED/PEA 15 function.

Subunit:
Binds RPS6KA3, MAPK3 and MAPK1. Transient interaction with PLD1 and PLD2 (By similarity). Interacts with CASP8 and FADD.

Subcellular Location:
Cytoplasm.

Tissue Specificity:
Ubiquitously expressed. 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.

Similarity:
Contains 1 DED (death effector) domain.

Database links:

Entrez Gene: 8682 Human

Entrez Gene: 18611 Mouse

Omim: 603434 Human

SwissProt: Q15121 Human

SwissProt: Q62048 Mouse

Unigene: 517216 Human

Unigene: 544 Mouse

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Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.