

Product Name: PEA-15 (phospho Ser104) Rabbit Polyclonal Antibody
Catalog #: APRab05237

Summary

Production Name	PEA-15 (phospho Ser104) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse,Rat,Monkey

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PEA15
Alternative Names	PEA15; Astrocytic phosphoprotein PEA-15; 15 kDa phosphoprotein enriched in astrocytes; Phosphoprotein enriched in diabetes; PED
Gene ID	8682.0
SwissProt ID	Q15121.The antiserum was produced against synthesized peptide derived from human PEA-15 around the phosphorylation site of Ser104. AA range:70-119

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000..
Molecular Weight	19kD

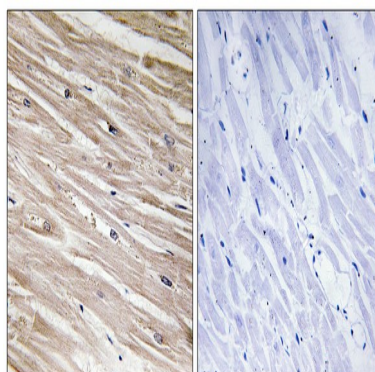
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Background

phosphoprotein enriched in astrocytes 15(PEA15) Homo sapiens 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],function:Blocks Ras-mediated inhibition of integrin activation and modulates the ERK MAP kinase cascade. Inhibits RPS6KA3 activities by retaining it in the cytoplasm (By similarity). Inhibits both TNFRSF6- and TNFRSF1A-mediated CASP8 activity and apoptosis. Regulates glucose transport by controlling both the content of SLC2A1 glucose transporters on the plasma membrane and the insulin-dependent trafficking of SLC2A4 from the cell interior to the surface.,PTM:Phosphorylated by protein kinase C and calcium-calmodulin-dependent protein kinase. These phosphorylation events are modulated by neurotransmitters or hormones.,similarity:Contains 1 DED (death effector) domain.,subcellular location:Associated with microtubules.,subunit:Binds RPS6KA3, MAPK3 and MAPK1. Transient interaction with PLD1 and PLD2 (By similarity). Interacts with CASP8 and FADD.,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.,

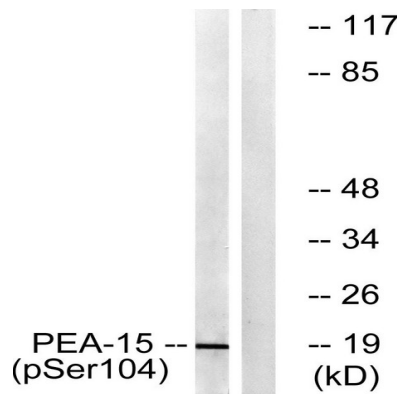
Research Area

Image Data



Immunohistochemistry analysis of paraffin-embedded human heart, using PEA-15 (Phospho-Ser104) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from COS7 cells treated with TNF 20ng/ml 5', using PEA-15 (Phospho-Ser104) Antibody.
The lane on the right is blocked with the phospho peptide.

Note

For research use only.