PEA-15 (Phospho Ser116) Rabbit pAb

CatalogNo: YP0669 **Orthogonal Validated**

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Monkey

Applications
- WB,IHC,IF,ELISA

MW
- 15kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:5000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human PEA-15 around the phosphorylation site of Ser116. AA range:81-130

Specificity Phospho-PEA-15 (S116) Polyclonal Antibody detects endogenous levels of PEA-15 protein only when phosphorylated at S116.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):QPsEE

Target Information

Gene name PEA15

Protein Name Astrocytic phosphoprotein PEA-15

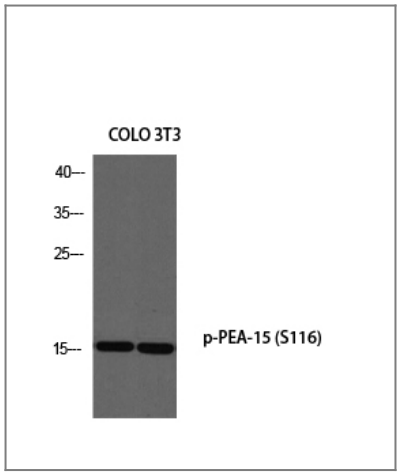
Organism	Gene ID	UniProt ID
Human	8682;	Q15121;
Mouse	18611;	Q62048;
Rat	364052;	Q5U318;

Cellular Localization Cytoplasm. Associated with microtubules.

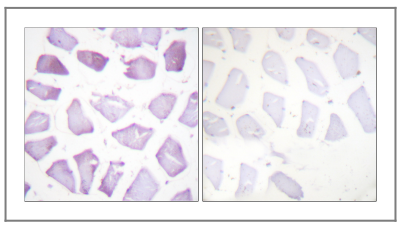
Tissue specificity Ubiquitously expressed. Most abundant in tissues such as heart , brain , muscle and adipose tissue which utilize glucose as an energy source. Lower expression in glucose-producing tissues. Higher levels of expression are found in tissues from individuals with type 2 diabetes than in controls.

Function 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. ,

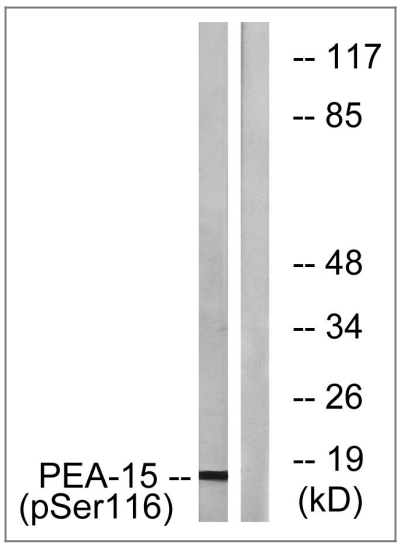
Validation Data



Western blot analysis of COLO 3T3 using p-PEA-15 (S116) antibody. Antibody was diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using PEA-15 (Phospho-Ser116) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with INSULIN 0.01U/ML 15', using PEA-15 (Phospho-Ser116) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
PEA-15 (Phospho Ser116) Rabbit pAb