

**PEA-15 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8524b**

**Specification**

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**PEA-15 Antibody (C-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q15121</a>
Other Accession	<a href="#">Q5U318</a> , <a href="#">Q62048</a> , <a href="#">Q9Z297</a>
Reactivity	Human, Mouse
Predicted	Hamster, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	15040
Antigen Region	86-115

**PEA-15 Antibody (C-term) - Additional Information**

**Gene ID** 8682

**Other Names**

Astrocytic phosphoprotein PEA-15, 15 kDa phosphoprotein enriched in astrocytes, Phosphoprotein enriched in diabetes, PED, PEA15

**Target/Specificity**

This PEA-15 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 86-115 amino acids from the C-terminal region of human PEA-15.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PEA-15 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PEA-15 Antibody (C-term) - Protein Information**

**Name** PEA15

**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.

**Cellular Location**

Cytoplasm. Note=Associated with microtubules.

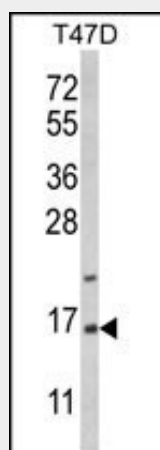
**Tissue Location**

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.

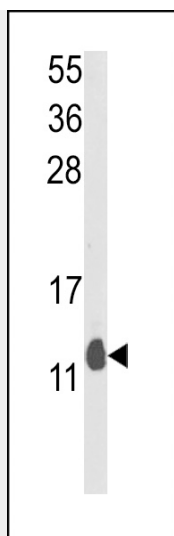
**PEA-15 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

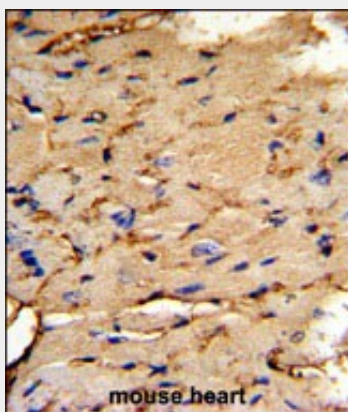
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PEA-15 Antibody (C-term) - Images**

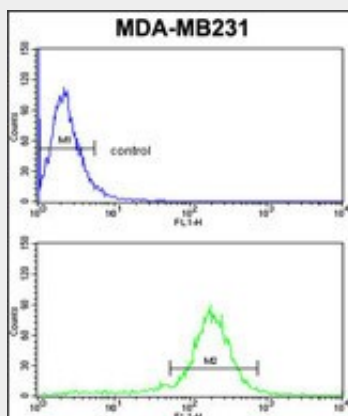
Western blot analysis of PEA-15 Antibody (C-term) (Cat. #AP8524b) in T47D cell line lysates (35ug/lane). PEA-15 (arrow) was detected using the purified Pab.



Western blot analysis of PEA-15 Antibody (C-term) (Cat. #AP8524b) in mouse lung tissue lysates (35ug/lane). PEA-15 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded mouse heart tissue reacted with PEA-15 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



PEA-15 Antibody (C-term) (Cat. #AP8524b) flow cytometric analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### PEA-15 Antibody (C-term) - Background

PEA15 is a death effector domain (DED)-containing protein predominantly expressed in the central nervous system, particularly in astrocytes.

#### **PEA-15 Antibody (C-term) - References**

Trencia,A., et.al., Mol. Cell. Biol. 23 (13), 4511-4521 (2003)

Sugiyama,N., et.al., Mol. Cell Proteomics 6 (6), 1103-1109 (2007)