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PEA-15 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8524b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q15121
Other Accession	Q5U318, Q62048, Q9Z297
Reactivity	Human, Mouse
Predicted	Hamster, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21195
Calculated MW	15040
Antigen Region	86-115

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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.

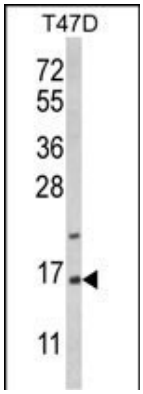
Background

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

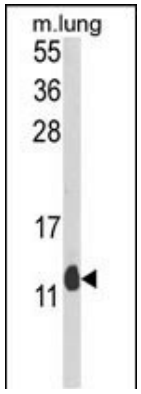
References

Trencia,A., et.al., Mol. Cell. Biol. 23 (13), 4511-4521 (2003)
Sugiyama,N., et.al., Mol. Cell Proteomics 6 (6), 1103-1109 (2007)

Images

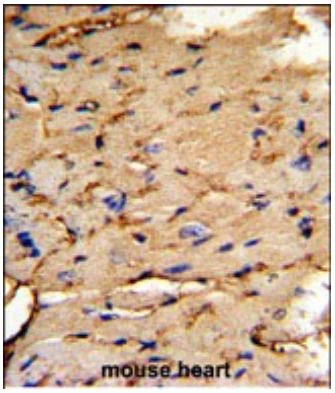


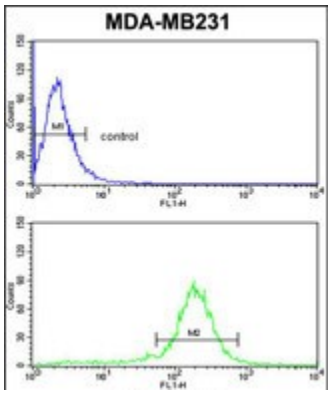
Western blot analysis of PEA-15 Antibody (C-term) (Cat. #AP8524b) in T47D cell line lysates (35ug/lane).PEA-15 (arrow) was detected using the purified Pab.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.