ARG11125
anti-PEA15 antibody [4D2]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [4D2] recognizes PEA15
Tested Reactivity	Ms, Rat, Cow
Predict Reactivity	Hu
Tested Application	IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	4D2
Isotype	IgG1
Target Name	PEA15
Species	Human
Immunogen	Full-length Human PEA15.
Conjugation	Un-conjugated
Alternate Names	MAT1H; MAT1; Astrocytic phosphoprotein PEA-15; HUMMAT1H; 15 kDa phosphoprotein enriched in astrocytes; PED; PEA-15; Phosphoprotein enriched in diabetes; HMAT1

Application Instructions

Application table

Application	Dilution
IHC-Fr	1:1000 - 1:2000
WB	1:1000 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Observed Size	~ 15 kDa

Properties

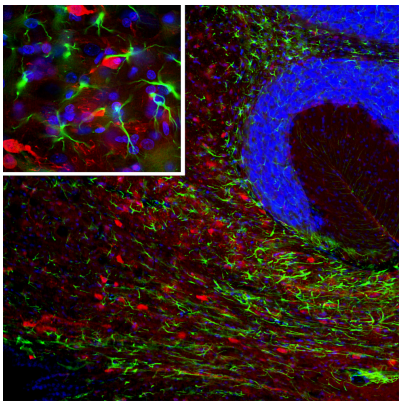
Form	Liquid
Purification	Purified
Buffer	PBS, 5 mM Sodium azide and 50% Glycerol.
Preservative	5 mM Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

	cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

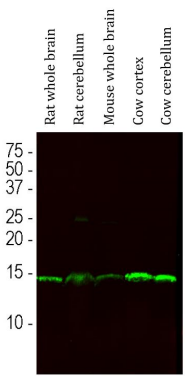
Gene Symbol	PEA15
Gene Full Name	phosphoprotein enriched in astrocytes 15
Background	This gene encodes a death effector domain-containing protein that functions as a negative regulator of apoptosis. The encoded protein is an endogenous substrate for protein kinase C. This protein is also overexpressed 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. [UniProt]
Calculated Mw	15 kDa
PTM	Phosphorylated by protein kinase C and calcium-calmodulin-dependent protein kinase. These phosphorylation events are modulated by neurotransmitters or hormones. [UniProt]
Cellular Localization	Cytoplasm. Note=Associated with microtubules. [UniProt]

Images



ARG11125 anti-PEA15 antibody [4D2] IHC-Fr image

Immunohistochemistry: Frozen section of Rat brain tissue stained with ARG11125 anti-PEA15 antibody [4D2] (red) at 1:1000 dilution, and co-stained with anti-GFAP antibody (green) at 1:5000 dilution. Hoechst (blue) for nuclear staining. (Sample preparation: Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 µM, and free-floating sections were stained with above antibodies.).



ARG11125 anti-PEA15 antibody [4D2] WB image

Western blot: Rat whole brain, Rat cerebellum, Mouse whole brain, Cow cortex and Cow cerebellum lysates stained with ARG11125 anti-PEA15 antibody [4D2] at 1:1000 dilution.