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RIC3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12721b

Product Information

Application	IHC-P, WB, E
Primary Accession	Q7Z5B4
Other Accession	NP_001128581.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32321
Calculated MW	41092
Antigen Region	313-341

Additional Information

Gene ID	79608
Other Names	Protein RIC-3, Resistant to inhibitor of cholinesterase 3, RIC3
Target/Specificity	This RIC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 313-341 amino acids from the C-terminal region of human RIC3.
Dilution	IHC-P~~1:100~500 WB~~1:1000 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	RIC3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RIC3
Function	Molecular chaperone which facilitates proper subunit assembly and surface trafficking of alpha-7 (CHRNA7) and alpha-8 (CHRNA8) nicotinic acetylcholine receptors (PubMed:12821669, PubMed:15504725, PubMed:16120769, PubMed:18691158, PubMed:32204458). May also promote functional

	expression of homomeric serotoninergic 5-HT3 receptors, and of heteromeric acetylcholine receptors alpha-3/beta-2, alpha-3/beta-4, alpha-4/beta-2 and alpha-4/beta-4.
Cellular Location	[Isoform 1]: Endoplasmic reticulum membrane; Single-pass membrane protein
Tissue Location	Broadly expressed, with high levels in muscle, brain, heart, pancreas and testis. In the central nervous system, highest levels are detected in the cerebellum and pituitary gland Over-expressed in brains from patients with bipolar disease or schizophrenia. Isoform 5 is predominantly expressed in the brain

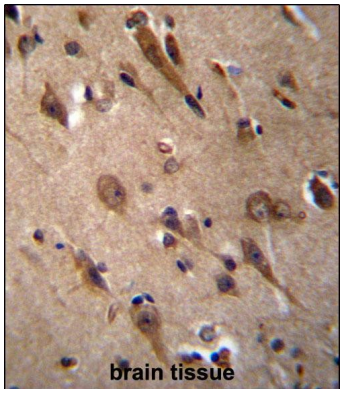
Background

RIC3 is a protein associated with nicotinic acetylcholine receptors (nAChRs), neurotransmitter-gated ion channels expressed at the neuromuscular junction and within the central and peripheral nervous systems, that can enhance functional expression of multiple nAChR subtypes (Lansdell et al., 2005 [PubMed 16120769]).[supplied by OMIM].

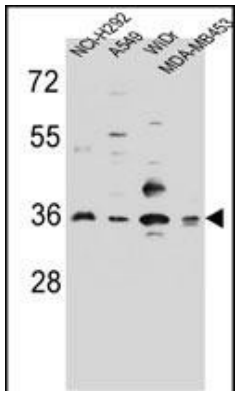
References

Walstab, J., et al. J. Biol. Chem. 285(35):26956-26965(2010)
Bailey, S.D., et al. Diabetes Care (2010) In press :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Seredenina, T., et al. Biosci. Rep. 28(6):299-306(2008)
Roncarati, R., et al. Assay Drug Dev Technol 6(2):181-193(2008)

Images



RIC3 Antibody (C-term) (Cat. #AP12721b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RIC3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



RIC3 Antibody (C-term) (Cat. #AP12721b) western blot analysis in NCI-H292,A549,WiDr,MDA-MB453 cell line lysates (35ug/lane).This demonstrates the RIC3 antibody detected the RIC3 protein (arrow).