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REPS2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13131a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8NFH8
Other Accession	NP_004717.2, NP_001074444.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32411
Calculated MW	71534
Antigen Region	153-182

Additional Information

Gene ID	9185
Other Names	RalBP1-associated Eps domain-containing protein 2, Partner of RalBP1, RalBP1-interacting protein 2, REPS2, POB1
Target/Specificity	This REPS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 153-182 amino acids from the N-terminal region of human REPS2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	REPS2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	REPS2
Synonyms	POB1
Function	Involved in ligand-dependent receptor mediated endocytosis of the EGF and

	insulin receptors as part of the Ral signaling pathway (PubMed:10393179, PubMed:12771942, PubMed:9422736). By controlling growth factor receptors endocytosis may regulate cell survival (PubMed:12771942). Through ASAP1 may regulate cell adhesion and migration (PubMed:12149250).
Cellular Location	Cytoplasm.
Tissue Location	Expressed at high levels in the cerebrum, cerebellum, lung, kidney, and testis. Weakly expressed in the kidney Isoform 2 is down-regulated during progression of prostate cancer

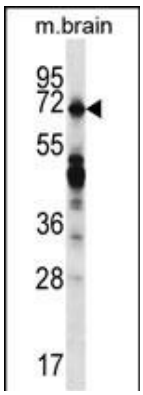
Background

The product of this gene is part of a protein complex that regulates the endocytosis of growth factor receptors. The encoded protein directly interacts with a GTPase activating protein that functions downstream of the small G protein Ral. Its expression can negatively affect receptor internalization and inhibit growth factor signaling. Multiple transcript variants encoding different isoforms have been found for this gene.

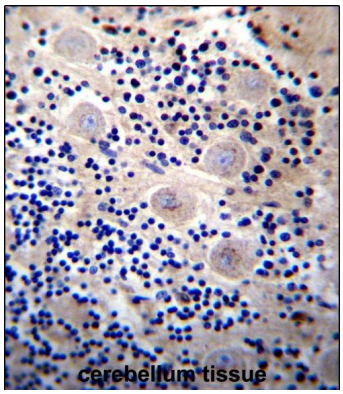
References

Doolan, P., et al. Tumour Biol. 30(4):200-209(2009) Singhal, S.S., et al. J. Biol. Chem. 283(28):19714-19729(2008) Yadav, S., et al. Biochem. Biophys. Res. Commun. 328(4):1003-1009(2005) Oosterhoff, J.K., et al. Int. J. Cancer 113(4):561-567(2005) Penninkhof, F., et al. Oncogene 23(33):5607-5615(2004)

Images



REPS2 Antibody (N-term) (Cat. #AP13131a) western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the REPS2 antibody detected the REPS2 protein (arrow).



REPS2 Antibody (N-term) (Cat. #AP13131a)immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of REPS2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.