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RABAC1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9049a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9UI14
Other Accession	Q52NJ0
Reactivity	Human
Predicted	Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23511
Calculated MW	20648
Antigen Region	1-30

Additional Information

Gene ID	10567
Other Names	Prenylated Rab acceptor protein 1, PRA1 family protein 1, RABAC1, PRA1, PRAF1
Target/Specificity	This RABAC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human RABAC1.
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	RABAC1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RABAC1
Synonyms	PRA1, PRAF1

Function	General Rab protein regulator required for vesicle formation from the Golgi complex. May control vesicle docking and fusion by mediating the action of Rab GTPases to the SNARE complexes. In addition it inhibits the removal of Rab GTPases from the membrane by GDI.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:O35394}; Multi-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:O35394}. Golgi apparatus {ECO:0000250|UniProtKB:O35394}. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle {ECO:0000250|UniProtKB:O35394}. Note=According to some authors, it is an integral membrane protein, while others showed that it is cytoplasmic and membrane-associated to Golgi and synaptic vesicles. {ECO:0000250|UniProtKB:O35394}
Tissue Location	Ubiquitous. Strongest expression found in placenta, pituitary gland, kidney, lung and stomach

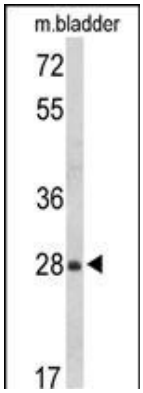
Background

RABAC1 is general Rab protein regulator required for vesicle formation from the Golgi complex. May control vesicle docking and fusion by mediating the action of Rab GTPases to the SNARE complexes. In addition it inhibits the removal of Rab GTPases from the membrane by GDI.

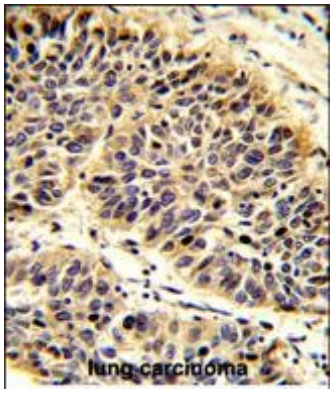
References

Venkatesan,K., et.al., Nat. Methods 6 (1), 83-90 (2009)
Kim,J.T., et.al., Biochem. Biophys. Res. Commun. 349 (1), 200-208 (2006)

Images

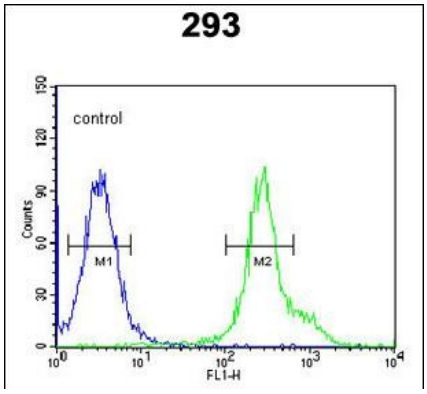


Western blot analysis of RABAC1 Antibody (N-term) (Cat. #AP9049a) in mouse bladder tissue lysates (35ug/lane). RABAC1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with RABAC1 Antibody (N-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.

RABAC1 Antibody (N-term) (Cat. #AP9049a) flow cytometric analysis of 293 cells (right histogram)



compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Di-arginine and FFAT-like motifs retain a subpopulation of PRA1 at ER-mitochondria membrane contact sites
- Phosphodiesterase 6β Expression In Developing Mouse Retina.