

GKAP1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5474b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q5VSY0
Other Accession	Q5XIG5 , Q9JMB0 , Q32LE2 , NP_001129425.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26856
Calculated MW	42078
Antigen Region	331-359

Additional Information

Gene ID	80318
Other Names	G kinase-anchoring protein 1, cGMP-dependent protein kinase-anchoring protein of 42 kDa, GKAP1, GKAP42
Target/Specificity	This GKAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 331-359 amino acids from the C-terminal region of human GKAP1.
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	GKAP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GKAP1
Synonyms	GKAP42

Function	Regulates insulin-dependent IRS1 tyrosine phosphorylation in adipocytes by modulating the availability of IRS1 to IR tyrosine kinase. Its association with IRS1 is required for insulin-induced translocation of SLC2A4 to the cell membrane. Involved in TNF-induced impairment of insulin-dependent IRS1 tyrosine phosphorylation.
Cellular Location	Golgi apparatus {ECO:0000250 UniProtKB:Q9JMB0}.

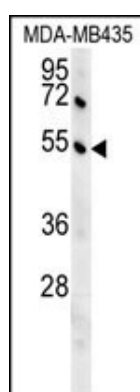
Background

GKAP1 is a protein that is highly similar to the mouse cGMP-dependent protein kinase anchoring protein 42kDa. The mouse protein has been found to localize with the Golgi and recruit cGMP-dependent protein kinase I alpha to the Golgi in mouse testes. It is thought to play a role in germ cell development. Transcript variants encoding different isoforms have been found for this gene.

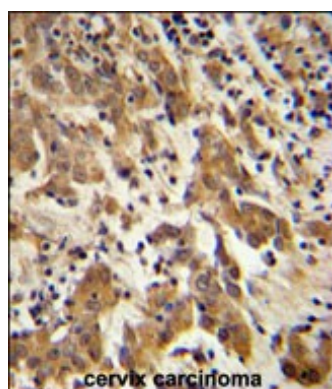
References

Lim, J., et al. Cell 125(4):801-814(2006)
Sweetser, D.A., et al. Genes Chromosomes Cancer 44(3):279-291(2005)
Yuasa, K., et al. J. Biol. Chem. 275(7):4897-4905(2000)

Images

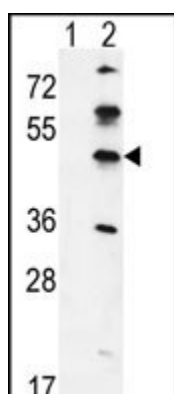


GKAP1 Antibody (C-term) (Cat.#AP5474b) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the GKAP1 antibody detected the GKAP1 protein (arrow).



GKAP1 Antibody (C-term) (Cat. #AP5474b) immunohistochemistry analysis in formalin fixed and paraffin embedded human cervix carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GKAP1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Western blot analysis of GKAP1 (arrow) using rabbit polyclonal GKAP1 Antibody (C-term) (Cat. #AP5474b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GKAP1 gene.



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