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PI3KR5 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8027c

Product Information

Application	WB, E
Primary Accession	Q8WYR1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB11620
Calculated MW	97348
Antigen Region	392-421

Additional Information

Gene ID	23533
Other Names	Phosphoinositide 3-kinase regulatory subunit 5, PI3-kinase regulatory subunit 5, PI3-kinase p101 subunit, Phosphatidylinositol 4, 5-bisphosphate 3-kinase regulatory subunit, PtdIns-3-kinase regulatory subunit, Protein FOAP-2, PtdIns-3-kinase p101, p101-PI3K, PIK3R5
Target/Specificity	This PI3KR5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 392-421 amino acids from the Central region of human PI3KR5.
Dilution	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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	PI3KR5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PIK3R5
Function	Regulatory subunit of the PI3K gamma complex. Required for recruitment

	of the catalytic subunit to the plasma membrane via interaction with beta-gamma G protein dimers. Required for G protein- mediated activation of PIK3CG (By similarity).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:O02696}. Cytoplasm {ECO:0000250|UniProtKB:O02696}. Cell membrane {ECO:0000250|UniProtKB:O02696}; Peripheral membrane protein {ECO:0000250|UniProtKB:O02696}. Note=Predominantly localized in the nucleus in absence of PIK3CG/p120. Colocalizes with PIK3CG/p120 in the cytoplasm. Translocated to the plasma membrane in a beta-gamma G protein-dependent manner. {ECO:0000250|UniProtKB:O02696}
Tissue Location	Ubiquitously expressed with high expression in fetal brain compared to adult brain. Abundant expression is observed in cerebellum, cerebral cortex, cerebral meninges, and vermis cerebelli

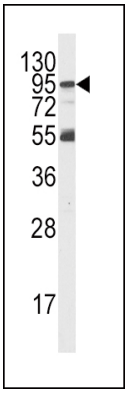
Background

PI3KR5 is a regulatory subunit of the PI3K gamma complex. This protein, which interacts with G beta gamma proteins, is a heterodimer of a catalytic subunit (PI3KCG/p120) and a regulatory (PI3KR5a/p101) subunit.

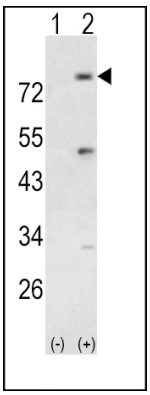
References

Brock, C., et al., J. Cell Biol. 160(1):89-99 (2003).

Images



Western blot analysis of PI3KR5 Antibody (Center) Pab (Cat.#AP8027c) in K562 cell line lysates (35ug/lane). PI3KR5(arrow) was detected using the purified polyclonal antibody.



Western blot analysis of PIK3R5 (arrow) using rabbit polyclonal PIK3R5 Antibody (Center) (Cat. #AP8027c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PIK3R5 gene (Lane 2).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.