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PIK3R5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11544b

Specification

PIK3R5 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q8WYR1
Other Accession	NP_001136105.1, NP_055123.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**97348**
Antigen Region	**763-792**

PIK3R5 Antibody (C-term) - 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 PIK3R5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 763-792 amino acids from the C-terminal region of human PIK3R5.

Dilution
WB~~1:1000
IHC-P~~1:50~100
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
PIK3R5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PIK3R5 Antibody (C-term) - 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}

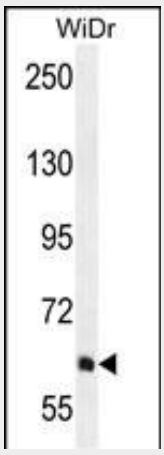
Tissue Location
Ubiquitously expressed with high expression in fetal brain compared to adult brain. Abundant expression is observed in cerebellum, cerebral cortex, cerebral meninges, and vermis cerebelli

PIK3R5 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PIK3R5 Antibody (C-term) - Images



PIK3R5 Antibody (C-term) (Cat. #AP11544b) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the PIK3R5 antibody detected the PIK3R5 protein (arrow).

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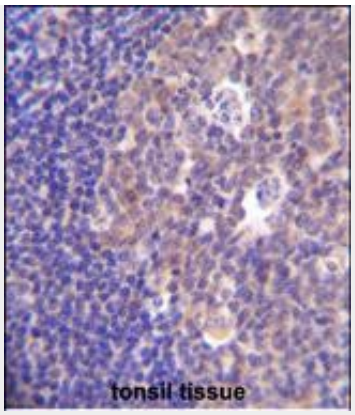
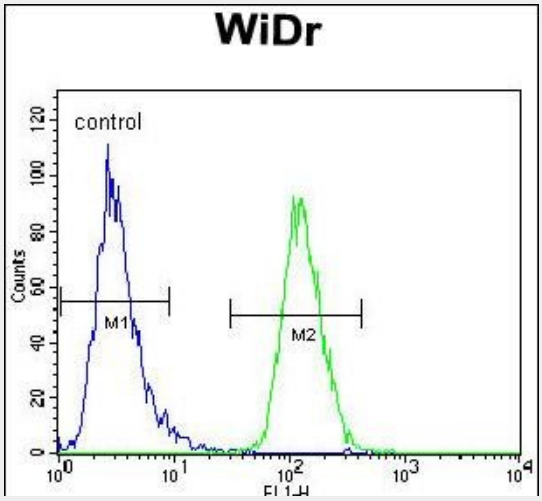


PIK3R5 Antibody (C-term) (Cat. #AP11544b)immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PIK3R5 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



PIK3R5 Antibody (C-term) (Cat. #AP11544b) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PIK3R5 Antibody (C-term) - Background

Receptor-regulated class I phosphoinositide 3-kinases (PI3Ks) phosphorylate the membrane lipid phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) to PtdIns(3,4,5)P3, which in turn recruits and activates cytosolic effectors involved in proliferation, survival, or chemotaxis. PIK3R5 is a PI3K regulatory subunit (Brock et al., 2003 [PubMed 12507995]).

PIK3R5 Antibody (C-term) - References

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