

phospho-PI3 Kinase p110 beta (Ser1070) Rabbit pAb

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Catalog # AP94133

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P42338
Reactivity	Human, Mouse, Rat
Predicted	Chicken, Dog, Pig, Horse, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthesised phosphopeptide derived from human PI3 Kinase p110 beta around the phosphorylation site of Ser1070
Epitope Specificity	YR(p-S)
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus. Note=Interaction with PIK3R2 is required for nuclear localization and export.
SIMILARITY	Belongs to the PI3/PI4-kinase family.Contains 1 C2 PI3K-type domain.Contains 1 PI3K-ABD domain.Contains 1 PI3K-RBD domain.Contains 1 PI3K/PI4K domain.Contains 1 PIK helical domain.
SUBUNIT	PIK3R2 or PIK3R3). Interaction with PIK3R2 is required for nuclear localization and nuclear export. Part of a complex with PIK3R1 and PTEN. Binding to PTEN may antagonize the lipid kinase activity under normal growth conditions. Part of a complex involved in autophagosome formation composed of PIK3C3 and PIK3R4. Interacts with BECN1, ATG14 and RAB5A.
Post-translational modifications	Phosphorylation at Ser-1070 down-regulates lipid kinase activity.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an isoform of the catalytic subunit of phosphoinositide 3-kinase (PI3K). These kinases are important in signaling pathways involving receptors on the outer membrane of eukaryotic cells and are named for their catalytic subunit. The encoded protein is the catalytic subunit for PI3Kbeta (PI3KB). PI3KB has been shown to be part of the activation pathway in neutrophils which have bound immune complexes at sites of injury or infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011].

Additional Information

Other Names	Phosphatidylinositol 4, 5-bisphosphate 3-kinase catalytic subunit beta isoform, PI3-kinase subunit beta, PI3K-beta, PI3Kbeta, PtdIns-3-kinase subunit
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beta, 2.7.1.153, Phosphatidylinositol 4, 5-bisphosphate 3-kinase 110 kDa catalytic subunit beta, PtdIns-3-kinase subunit p110-beta, p110beta, Serine/threonine protein kinase PIK3CB, 2.7.11.1, PIK3CB, PIK3C1

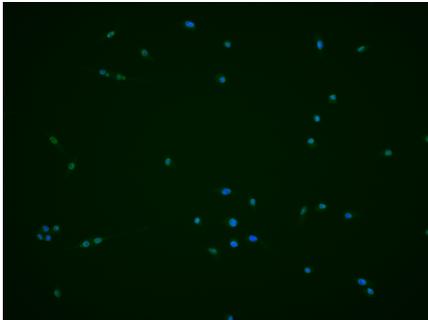
Target/Specificity	Expressed ubiquitously.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

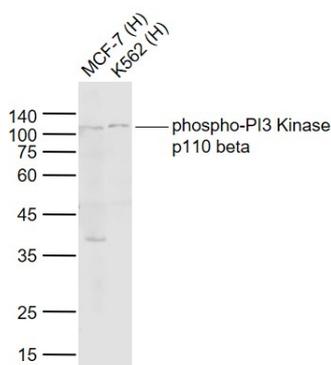
Background

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Images



A431 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-PI3 Kinase p110 beta (Ser1070)) polyclonal Antibody, Unconjugated (AP94133) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Sample:

Lane 1: Human MCF-7 cell lysates

Lane 2: Human K562 cell lysates

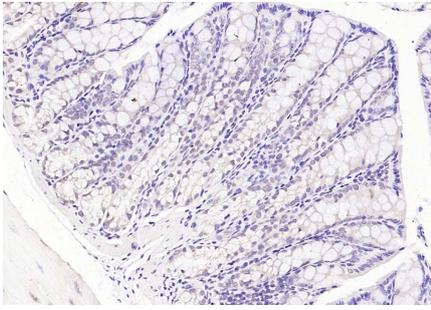
Primary: Anti-phospho-PI3 Kinase p110 beta (Ser1070) (AP94133) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 110-123 kD

Observed band size: 110 kD

Paraformaldehyde-fixed, paraffin embedded (mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-PI3 Kinase p110 beta (Ser1070))



) Polyclonal Antibody, Unconjugated (AP94133) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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