PI3K p110(beta) Polyclonal ANTIBODY

Catalog Number: 20584-1-AP

Basic Information

Catalog Number: 20584-1-AP
Size: 25 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number:
GenBank Accession Number: NM_006219
GeneID (NCBI): 5291
Full Name: phosphoinositide 3-kinase, catalytic, beta polypeptide
Calculated MW: 123 kDa
Observed MW: 110 kDa
Recommended Dilutions:
WB: 1:500-1:1000
IP: 0.5-4.0 μg for IP and 1:200-1:1000 for WB
IHC: 1:100-1:400
IF: 1:10-1:100

Applications

Tested Applications: IF, IHC, IP, WB, ELISA
Cited Applications: IHC, WB
Species Specificity: human
Cited Species: chicken, human, mouse, rat

Background Information

PIK3CB (phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform) is also named as PIK3C1, PI3K-beta, p110beta. The gene encodes a 1070 amino acid protein which belongs to the PI3/PI4-kinase family. Phosphoinositide 3-kinases (PI3Ks) have been implicated as participants in signaling pathways regulating cell growth by virtue of their activation in response to various mitogenic stimuli. The class I PI3 kinases are heterodimers composed of 110 kDa catalytic subunits that associate with regulatory adaptor proteins. Four class I catalytic subunits have been identified, PIK3CA (p110α), PIK3CB (p110β), PIK3CD (p110δ) and PIK3CG (p110γ) (PMID:19177002). This antibody is specific to PIK3CB.

Notable Publications

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<tr>
<th>Author</th>
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<tr>
<td>Xiao Sun</td>
<td>29054015</td>
<td>J Inorg Biochem</td>
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<td>Jun Zhao</td>
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<td>Yubo Xiao</td>
<td>29138118</td>
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Storage

Storage: Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product, please contact:
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HepG2 cells were subjected to SDS PAGE followed by western blot with 20584-1-AP (PI3K p110(beta) antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of HepG2 cells, using PHOS antibody 20584-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).

