PI3 Kinase p110 Beta Polyclonal antibody

Catalog Number: 20584-1-AP

Basic Information

Catalog Number: 20584-1-AP
Size: 150μl, Concentration: 1000 μg/ml by Nanodrop.
Source: Rabbit
Isotype: IgG

GenBank Accession Number: NM_006219
GeneID (NCBI): 5291
Full Name: phosphoinositide-3-kinase, catalytic, beta polypeptide
Calculated MW: 123 kDa
Observed MW: 110-130 kDa
Purification Method: Antigen affinity purification
Recommended Dilutions:
WB: 1:200-1:1000
IP: 0.5-4.0 μg for IP and 1:200-1:1000 for WB
IHC: 1:50-1:500

Applications

Tested Applications:
FC, IHC, IP, WB, ELISA
Cited Applications:
CoIP, IF, IHC
Species Specificity:
human, rat
Cited Species:
human, chicken, rat, mouse, rabbit, fish, zebrafish, pig, canine, Megalobrama amblycephala

Note—IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

PIK3CB (phosphatidylinositol 4,5-biphosphate 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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yangmeng Zhao</td>
<td>36178125</td>
<td>Redox Rep</td>
<td></td>
</tr>
<tr>
<td>Tong Li</td>
<td>33152931</td>
<td>Biomed Pharmacoth</td>
<td></td>
</tr>
<tr>
<td>Samana Batool</td>
<td>30274346</td>
<td>Int J Mol Sci</td>
<td></td>
</tr>
</tbody>
</table>

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

*** 20ul sizes contain 0.1% BSA

For Research Use Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintechn@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
rat liver tissue were subjected to SDS PAGE followed by western blot with 20584-1-AP (PI3 Kinase p110 Beta antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.


1X10^6 HeLa cells were intracellularly stained with 0.2 ug Anti-Human PI3 Kinase p110 Beta (20584-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.