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:

Recommended Dilutions:
WB: 1:500-1:1000
IP: 0.5-4.0 μg for IP and 1:200-1:1000 for WB
IHC: 1:100-1:1000
IF: 1:10-1:100

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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Samana Batool</td>
<td>30274346</td>
<td>Int J Mol Sci</td>
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<td>Yannan Liu</td>
<td>30207362</td>
<td>Food Funct</td>
<td>WB, IHC</td>
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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 Research Use Only

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T: 1 (888) 4PTGLAB (toll free in USA), or (312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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HepG2 cells were subjected to SDS PAGE followed by western blot with 20584-1-AP (PI3K p110(β) antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of HepG2 cells, using PIK3CB antibody 20584-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).

IP Result of anti-PI3K p110(β) (IP: 20584-1-AP, 4μg; Detection: 20584-1-AP 1:300) with HepG2 cells lysate 2700μg.
