**PI3 Kinase p110 Beta Polyclonal antibody**

**Catalog Number:** 20584-1-AP  
**Featured Product**  
**111 Publications**

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### Basic Information

- **Catalog Number:** 20584-1-AP  
- **GenBank Accession Number:** NM_006219  
- **GeneID (NCBI):** 5291  
- **Full Name:** phosphoinositide-3-kinase, catalytic, beta polypeptide  
- **Calculated MW:** 123 kDa  
- **Observed MW:** 110 kDa  
- **Source:** Rabbit  
- **Isotype:** IgG  
- **Size:** 150µL, Concentration: 333 µg/ml by Bradford method using BSA as the standard;  
- **Recommended Dilutions:** IP 0.5-4.0 µg for IP and 1:200-1:1000 for WB  
- **IHC:** 1:100-1:400  

### Purification Method:
Antigen affinity purification  

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### Applications

- **Tested Applications:** IHC, IP, ELISA  
- **Cited Applications:** co-IP, IF, IHC  
- **Species Specificity:** human  
- **Cited Species:** blunt snout bream, carp, CHICKEN, fish, human, mouse, rat, swine  

**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-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.  

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### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
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<th>Journal</th>
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<tbody>
<tr>
<td>Tong Li</td>
<td>33152951</td>
<td>Biomed Pharmacother</td>
<td>WB</td>
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<tr>
<td>Samana Batool</td>
<td>30274346</td>
<td>Int J Mol Sci</td>
<td>WB</td>
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<tr>
<td>Jing Zhao</td>
<td>32986180</td>
<td>Biotechnol Lett</td>
<td>WB</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  

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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: proteintech@ptglab.com  
W: ptglab.com  

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

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