PI3K p110(alpha) Polyclonal ANTIBODY

Catalog Number: 20583-1-AP

Basic Information

- **Catalog Number:** 20583-1-AP
- **Size:** 25 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Full Name:** phosphoinositide-3-kinase, catalytic, alpha polypeptide
- **GenBank Accession Number:** NM_006218
- **GeneID (NCBI):** 5290
- **Calculated MW:** 124 kDa
- **Observed MW:** 120-130 kDa

Recommended Dilutions:
- **WB:** 1:300-1:1000
- **IHC:** 1:50-1:500

Applications

- **Tested Applications:** IHC, WB, ELISA
- **Cited Applications:** IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, mouse

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

Positive Controls:
- **WB:** HepG2 cells, COLO 320 cells, HeLa cells, A431 cells, mouse liver tissue
- **IHC:** human cervical cancer tissue

Background Information

PIK3CA belongs to the PI3/PI4-kinase family. It phosphorylates PtdIns, PtdIns4P and PtdIns(4,5)P2 with a preference for PtdIns(4,5)P2. Defects in PIK3CA are associated with colorectal cancer (CRC). Defects in PIK3CA are associated with breast cancer. Defects in PIK3CA are associated with ovarian cancer. Defects in PIK3CA may underlie hepatocellular carcinoma (HCC). Defects in PIK3CA are a cause of keratosis seborrheic (KERSEB). The antibody is specific to PIK3CA.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wu Jun J</td>
<td>23582786</td>
<td>Biomed Pharmacother</td>
<td>WB</td>
</tr>
<tr>
<td>H Zhang</td>
<td>28581513</td>
<td>Oncogene</td>
<td>WB, IHC</td>
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<tr>
<td>Hua Wang</td>
<td>27262656</td>
<td>J Cancer</td>
<td>IHC</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:
E: proteintech@ptglab.com
W: ptglab.com

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

HepG2 cells were subjected to SDS PAGE followed by western blot with 20583-1-AP (PI3K p110(alpha) antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.

Immunohistochemical of paraffin-embedded human cervical cancer using 20583-1-AP (PI3K p110(alpha) antibody) at dilution of 1:50 (under 40x lens).

Immunohistochemical of paraffin-embedded human cervical cancer using 20583-1-AP (PI3K p110(alpha) antibody) at dilution of 1:50 (under 10x lens).

HeLa cells were subjected to SDS PAGE followed by western blot with 20583-1-AP (PI3K p110(alpha) antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.