**INPP5E Polyclonal ANTIBODY**

**Catalog Number:** 17797-1-AP

---

### Basic Information

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>GenBank Accession Number</th>
<th>Recommended Dilutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>17797-1-AP</td>
<td>BC080032</td>
<td>WB 1:500-1:2000</td>
</tr>
<tr>
<td></td>
<td>GenID (NCBI): 56623</td>
<td>IP 0.5-4.0 μg for IP and 1:100-1:2000 for WB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IHC 1:200-1:200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IF 1:20-1:200</td>
</tr>
</tbody>
</table>

**Size:** 54 μg/150 μl

**Source:** Rabbit

**Isotype:** IgG

**Purification Method:** Antigen affinity purification

**Immunogen Catalog Number:** AG11959

**GenBank Accession Number:** BC080032

**GeneID (NCBI):** 56623

**Calculated MW:** 644aa, 70 kDa

**Observed MW:** 64.66 kDa

### Applications

**Tested Applications:** IF, IHC, IP, WB, ELISA

**Cited Applications:** IF, WB

**Species Specificity:**
- human, rat, mouse
- human, mouse, zebrafish

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

### Background Information

INPP5E/72 kDa inositol polyphosphate 5-phosphatase (INPP5E) converts phosphatidylinositol 3,4,5-trisphosphate (PtdIns 3,4,5-P3) to PtdIns-P2. In mouse, highest protein expression was in brain, heart, and testis, with lower expression in thymus and lung, and very little expression in kidney, spleen, and liver (PMID: 10764818). Defects in INPP5E are the cause of Joubert syndrome type 1 (JBTS1) and mental retardation-truncal obesity-retinal dystrophy-micropenis (MORMS) (PMID: 19668215). It has 2 isoforms with the molecular mass of 66 kDa and 70 kDa.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sumaya Alkanderi</td>
<td>30269812</td>
<td>Am J Hum Genet</td>
<td>IF</td>
</tr>
<tr>
<td>Christin Hanke-Gogokhia</td>
<td>25083864</td>
<td>J Biol Chem</td>
<td>WB, IF</td>
</tr>
<tr>
<td>Gisela G Slaats</td>
<td>26409104</td>
<td>J Med Genet</td>
<td>WB, IF</td>
</tr>
</tbody>
</table>

### Storage

**Storage:** Store at -20°C. Stable for one year after shipment.

**Storage Buffer:** PBS with 0.05% sodium azide and 50% glycerol pH 7.3.

**Aliquoting is unnecessary for -20°C storage**
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 17797-1-AP(INPP5E antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human testis using 17797-1-AP(INPP5E antibody) at dilution of 1:100 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human testis using 17797-1-AP(INPP5E antibody) at dilution of 1:100 (under 40x lens).

IF result of ciliary INPP5E in human hTERT-RPE1 cell: Upper is from control siRNA transfected cells and bottom is from INPP5E siRNA transfected cells. 17797-1-AP specifically recognizes the ciliary INPP5E (From Dr. Seongjin Seo).

IP Result of anti-INPP5E (IP: 17797-1-AP, 3ug; Detection: 17797-1-AP 1:1000) with HEK-293 cells lysate 1000ug.