GPR37/Pael-R
Polyclonal ANTIBODY

Catalog Number: 14820-1-AP

Basic Information

- **Catalog Number**: 14820-1-AP
- **GenBank Accession Number**: BC046007
- **GeneID (NCBI)**: 2861
- **Full Name**: G protein-coupled receptor 37 (endothelin receptor type B-like)
- **Calculated MW**: 67 kDa
- **Observed MW**: 50-55 kDa
- **Recommended Dilutions**: WB 1:500-1:3200

- **Size**: 47 μg/150 μl
- **Source**: Rabbit
- **Isotype**: IgG
- **Purification Method**: Antigen affinity purification
- **Immunogen Catalog Number**: AG6591
- **GenBank Accession Number**: BC046007
- **GeneID (NCBI)**: 2861
- **Full Name**: G protein-coupled receptor 37 (endothelin receptor type B-like)
- **Calculated MW**: 67 kDa
- **Observed MW**: 50-55 kDa

Applications

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

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

Background Information

The orphan G protein-coupled receptor GPR37, also known as PAELR (parkin-associated endothelin receptor-like receptor) or ETBR-LP-1 (endothelin B receptor-like protein-1), is a 613 aa, multi-pass membrane protein predominantly expressed in the brain. It is a substrate of parkin (PARK2). When overexpressed in cells, GPR37 tends to become insoluble, unfolded, and ubiquitinated in vivo. Accumulation of the unfolded protein may lead to dopaminergic neuronal death in juvenile Parkinson disease (JPD). This antibody recognizes endogenous GPR37, which migrates as an approximately 50-55 kDa band in SDS-PAGE (PMID:17519329).

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beihe Liu</td>
<td>30205095</td>
<td>Glia</td>
<td>WB</td>
</tr>
<tr>
<td>Birgit S Berger</td>
<td>28341812</td>
<td>EMBO Rep</td>
<td>WB</td>
</tr>
<tr>
<td>Kate Sokolina</td>
<td>28298427</td>
<td>Mol Syst Biol</td>
<td>WB</td>
</tr>
</tbody>
</table>

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**

For technical support and original validation data for this product, please contact:
- **T**: (888) 478-4522 (toll free in USA), or (312) 455-8498 (outside USA)
- **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.
mouse brain tissue were subjected to SDS-PAGE followed by western blot with 14820-1-AP antibody (GPR37/Pael-R antibody) at dilution of 1:1600 incubated at room temperature for 1.5 hours.