S1PR1/EDG1 Polyclonal ANTIBODY
Catalog Number: 55133-1-AP

Basic Information
- **Catalog Number:** 55133-1-AP
- **Size:** 116 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:**
- **GenBank Accession Number:** NM_001400
- **GeneID (NCBI):** 1901
- **Full Name:** sphingosine-1-phosphate receptor 1
- **Calculated MW:** 43 kDa
- **Observed MW:** 45-50 kDa
- **Recommended Dilutions:**
  - **WB:** 1:200-1:600
  - **IP:** 0.5-4.0 μg for IP and 1:200-1:1000 for WB
  - **IHC:** 1:50-1:500
- **Tested Applications:** IHC, IP, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse
- **Cited Species:** human, mouse, rat
- **Positive Controls:**
  - **WB:** mouse brain tissue; SH-SY5Y cells
  - **IP:** mouse brain tissue;
  - **IHC:** human placenta tissue;
- **Note:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Applications
- **IHC, IP, WB, ELISA**

Background Information
- S1PR1 (sphingosine-1-phosphate receptor 1), also known as S1P1 or EDG1, is one of five G-protein-coupled receptors for sphingosine-1-phosphate (S1P), a biologically active metabolite of sphingolipid. S1P1 and its receptors have important regulatory functions in normal physiology and disease processes, particularly involving the immune, central nervous, and cardiovascular systems. S1PR1 is widely expressed on various cell types, including endothelial cells and lymphocytes. S1P-S1PR1 plays a major role in lymphocyte egress and chemotaxis, cell proliferation and survival and tumor angiogenesis and metastasis. The antibody is specific to S1PR1.

Notable Publications

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<td>Jiangnan Zhao</td>
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Storage
- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** 0.1M NaHCO3, 0.1M glycine, 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:
- **T:** 1 (888) 4PTGLAB (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.
Selected Validation Data

Mouse brain tissue were subjected to SDS PAGE followed by western blot with 55133-1-AP (S1PR1/EDG1 antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.

IP Result of anti-S1PR1/EDG1 (IP:55133-1-AP, 4ug; Detection:55133-1-AP 1:300) with mouse brain tissue lysate 2640ug.

Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 55133-1-AP (S1PR1/EDG1 antibody at dilution of 1:100 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 55133-1-AP (S1PR1/EDG1 antibody at dilution of 1:100 (under 40x lens).