EMR1 Polyclonal ANTIBODY

Catalog Number: 27044-1-AP

**Basic Information**

- **Catalog Number:** 27044-1-AP
- **Size:** 70 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG25883

- **GenBank Accession Number:** BC066385
- **GeneID (NCBI):** 2015

- **Recommended Dilutions:**
  - WB: 1:200-1:1000
  - IHC: 1:50-1:500

**Applications**

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

**Background Information**

EMR1 (EGF-like module containing mucin-like hormone receptor 1), also known as Adhesion G protein-coupled receptor E1 (ADGRE1), is a surface receptor with seven transmembrane segments that belongs to the EGF-7-transmembrane family of G protein-coupled receptors (PMID: 14647991, 7601460). EMR1 expression is restricted to eosinophilic granulocytes, where expression is overlapping with the eotaxin receptor CCR3 and the immunoglobulin-like lectin Siglec-8. Absence on other leukocytes, including basophils, implies that EMR1 is a highly specific marker for eosinophils in humans and may be used as a novel therapeutic target for eosinophilic disorders (PMID: 17823986, 24530099). F4/80, the murine homolog of EMR1, is a marker of murine macrophage. The apparent molecular weight of F4/80 is 160 kDa, which is larger than the calculated molecular weight due to post-translational modifications (PMID: 7308288; 8647179).

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dechen Liu</td>
<td>31188865</td>
<td>Cell Death Dis</td>
<td>IF</td>
</tr>
<tr>
<td>Li Liu</td>
<td>31246971</td>
<td>Front Immunol</td>
<td>IHC</td>
</tr>
<tr>
<td>Qin Li</td>
<td>30051682</td>
<td>Immunology</td>
<td>IHC</td>
</tr>
</tbody>
</table>

**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

For Research Use Only

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
HL-60 cells were subjected to SDS PAGE followed by western blot with 27044-1-AP (EMR1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 27044-1-AP (EMR1 antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 27044-1-AP (EMR1 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).