**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:** Affinity chromatography
- **Immunogen Catalog Number:** AG25883
- **GenBank Accession Number:** BC059395
- **GeneID (NCBI):** 2015
- **Full Name:** egf-like module containing, mucin-like, hormone receptor-like 1
- **Calculated MW:** 821aa, 90 kDa
- **Observed MW:** 160 kDa

#### Applications

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

**Cited Applications:** IF, IHC, WB

**Species Specificity:** human, mouse

**Cited Species:** human, mouse

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

**Positive Controls:**
- WB: HL-60 cells
- IHC: mouse liver tissue; mouse spleen tissue

### 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 weigh of F4/80 is 160 kDa, which is larger than the calculated molecular weight due to post-translational modifications (PMID: 7308288; 8647179).

### Notable Publications

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<thead>
<tr>
<th>Author</th>
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<th>Journal</th>
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</tr>
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<tbody>
<tr>
<td>Dechen Liu</td>
<td>31188865</td>
<td>Cell Death Dis</td>
<td>IF</td>
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<tr>
<td>Li Liu</td>
<td>313246571</td>
<td>Front Immunol</td>
<td>IHC</td>
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<td>Qi Li</td>
<td>31322255</td>
<td>Mol Med Rep</td>
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### 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.**
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).