

For Research Use Only

# Recombinant Human EMR1/ADGRE1/(F4/80) protein (rFc Tag)



Catalog Number: Eg1716

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<1.0 EU/μg protein, LAL method

**Source:**

HEK293-derived Human EMR1/ADGRE1/(F4/80) protein His21-Asp599 (Accession# Q14246-1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

2015

**Accession:**

Q14246-1

**Predicted Molecular Mass:**

89.4 kDa

**SDS-PAGE:**

**Formulation:**

Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

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 belong to the EGF-7-transmembrane family of G protein-coupled receptors. 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. F4/80, the murine homolog of EMR1, is a marker of murine macrophage.

## References

1. Kwakkenbos, Mark J et al. Immunogenetics vol. 55,10 (2004): 655-66.
2. Baud, V et al. Genomics vol. 26,2 (1995): 334-44.
3. Hamann, Jörg et al. European journal of immunology vol. 37,10 (2007): 2797-802.
4. Legrand, Fanny et al. The Journal of allergy and clinical immunology vol. 133,5 (2014): 1439-47, 1447.e1-8.
5. Austyn, J M, and S Gordon. European journal of immunology vol. 11,10 (1981): 805-15.

## Synonyms

For technical support and original validation data for this product please contact

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