

**Human CellExp FCER1A /FCE1A, human recombinant protein**  
**FCER1A, FCE1A, Ferris**  
**Catalog # PBV11094r****Specification**

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**Human CellExp FCER1A /FCE1A, human recombinant protein - Product info**Primary Accession  
Calculated MW[P12319](#)

This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 21.9 kDa. The predicted N-terminus is Val 26. DTT-reduced Protein migrates as 40-60 kDa due to glycosylation. KDa

**Human CellExp FCER1A /FCE1A, human recombinant protein - Additional Info**Gene ID  
Gene Symbol  
**Other Names**  
FCER1A, FCE1A, Ferris2205  
FCER1AGene Source  
Source  
Assay&Purity  
Assay2&Purity2  
Recombinant  
Results

Human  
HEK293 cells  
SDS-PAGE; ≥90%  
N/A;  
Yes  
Measured by its binding ability in a functional ELISA. Immobilized human FCER1A at 2 µg/ml (100 µl/well). The concentration of Human IgE that produces 50% of the optimal binding response is found to be approximately 0.1 - 0.4 µg/ml.

**Target/Specificity**  
FCER1A /FCE1A**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**Format**  
Lyophilized**Storage**

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

**Human CellExp FCER1A /FCE1A, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Human CellExp FCER1A /FCE1A, human recombinant protein - Images**

#### **Human CellExp FCER1A /FCE1A, human recombinant protein - Background**

High affinity immunoglobulin epsilon receptor subunit alpha (FCER1A) is also known as Fc-epsilon RI-alpha (FcERI), IgE Fc receptor subunit alpha, FCE1A. FCER1A contains two Ig-like (immunoglobulin-like) domains. FCER1A binds to the Fc region of immunoglobulins epsilon and is a high affinity receptor. FCER1A is responsible for initiating the allergic response, which binding of allergen to receptor-bound IgE leads to cell activation and the release of mediators (such as histamine) responsible for the manifestations of allergy. The same receptor also induces the secretion of important lymphokines. FCER1A plays a central role in allergic disease, coupling allergen and mast cell to initiate the inflammatory and immediate hypersensitivity responses that are characteristic of disorders such as hay fever and asthma.

#### **Human CellExp FCER1A /FCE1A, human recombinant protein - References**

Kochan J., et al. Nucleic Acids Res. 16:3584-3584(1988).  
Shimizu A., et al. Proc. Natl. Acad. Sci. U.S.A. 85:1907-1911(1988).  
Yagi S., et al. Eur. J. Biochem. 220:593-598(1994).  
Padlan E.A., et al. Receptor 2:129-144(1992).  
Garman S.C., et al. Cell 95:951-961(1998).