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Fc epsilon RI/FCER1A Protein (AA 26-205) (His tag)

Images



Overview

| Quantity: | 100 μg |
|-------------------------------|---|
| Target: | Fc epsilon RI/FCER1A (FCER1A) |
| Protein Characteristics: | AA 26-205 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This Fc epsilon RI/FCER1A protein is labelled with His tag. |

Product Details

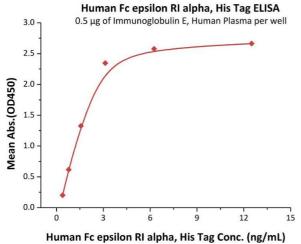
| Sequence: | AA 26-205 |
|------------------|--|
| Characteristics: | This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 21.9 kDa. The protein migrates as 40-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Purity: | >95 % as determined by SDS-PAGE. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Less than 1.0 EU per μg by the LAL method. |

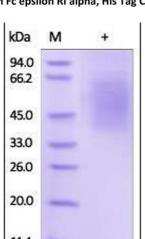
Target Details

Fc epsilon RI/FCER1A (FCER1A) Target:

Target Details

| Alternative Name: | FCER1A (FCER1A Products) |
|---------------------|--|
| 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. |
| Molecular Weight: | 22.9 kDa |
| Pathways: | Fc-epsilon Receptor Signaling Pathway, Regulation of Leukocyte Mediated Immunity, Positive |
| | Regulation of Immune Effector Process |
| Application Details | |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Lyophilized |
| Buffer: | PBS, pH 7.4 |
| Handling Advice: | Please avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After |
| | reconstitution under sterile conditions for 3 months (-70 °C). |





ELISA

Image 1. Immobilized Immunoglobulin E, Human Plasma at $5 \mu g/mL$ (100 $\mu L/well$) can bind Human Fc epsilon RI alpha, His Tag (ABIN2181075,ABIN2181074) with a linear range of 0.4-3 ng/mL (QC tested).

SDS-PAGE

Image 2. Human Fc epsilon RI alpha, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.