

## Purified Anti-Human FcεRIα Antibody[AER-37 (CRA-1)]

catalog number: AN015530P

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

### Description

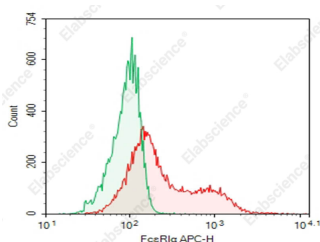
|                     |                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>   | Human                                                                                                                                           |
| <b>Immunogen</b>    | Recombinant Human FcεRIα protein                                                                                                                |
| <b>Host</b>         | Mouse                                                                                                                                           |
| <b>Isotype</b>      | Mouse IgG2b, κ                                                                                                                                  |
| <b>Clone</b>        | AER-37 (CRA-1)                                                                                                                                  |
| <b>Purification</b> | >98%, Protein A/G purified                                                                                                                      |
| <b>Buffer</b>       | Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer.<br>Dialyze to completely remove the stabilizer prior to labeling. |

### Applications

### Recommended Dilution

**FCM** ≤ 0.2 μg per million cells in 100 μL volume

### Data



HEK293T cells transfected with pcDNA3.1 plasmid encoding Human FcεRIα gene were stained with 0.2 μg Purified Anti-Human FcεRIα Antibody[AER-37 (CRA-1)] (Right) and 0.2 μg Mouse IgG2b, κ Isotype Control (Left), followed by APC-conjugated Goat Anti-Mouse IgG Secondary Antibody.

### Preparation & Storage

|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. |
| <b>Shipping</b> | Ice bag                                                                                            |

### Background

High affinity IgE receptor (FcεRI) plays a key role in IgE-mediated allergic immune response. FcεRI is a tetrameric receptor complex, which is composed of one α-subunit (FcεRIα), one β-subunit, and two γ-subunits. FcεRIα directly binds IgE with high affinity, while the β- and γ-chains are responsible for mediating intracellular signals. FcεRIα is a 50 kD transmembrane protein with Ig superfamily structure. It is primarily found on mast cells and basophils. Further studies have indicated that FcεRIα is also expressed on many inflammatory cells including cutaneous Langerhans cells, dendritic cells, monocytes of patients with allergic disorders, platelets, bronchial epithelial cells, eosinophils produced in hypereosinophilic syndrome, and neutrophils from allergy-induced asthma patients.

### For Research Use Only

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