

PerCP/Cy5.5 anti-human FcεRIα

Catalog # / Size: 2273105 / 25 tests
2273110 / 100 tests

Clone: AER-37 (CRA-1)

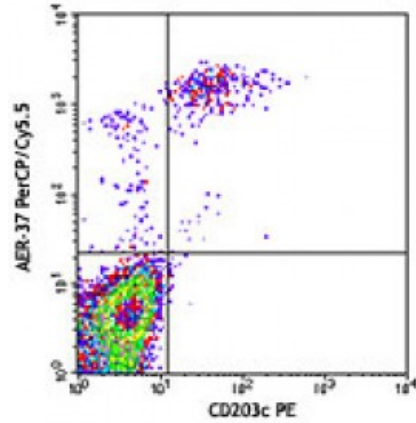
Isotype: Mouse IgG2b, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific

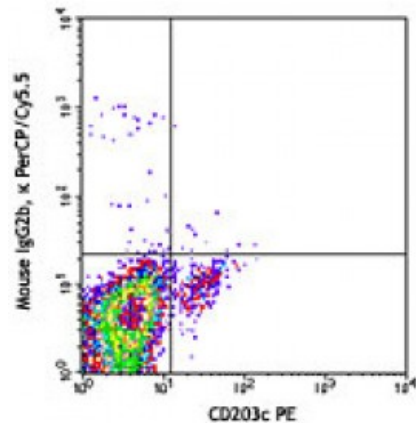


Human peripheral blood lymphocytes were stained with CD203c PE and FcεRIα (clone AER-37) PerCP/Cy5.5 (top) or mouse IgG2b, κ PerCP/Cy5.5 isotype control (bottom).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: Clone AER-37 (CRA-1) has been reported to bind the receptor even in the presence of IgE.4

- Application References:**
1. Yamaguchi M, *et al.* 1999. *J. Immunol.* 162:5455.
 2. Suzukawa M, *et al.* 2005. *Int. Immunol.* 17:1249.
 3. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) [PubMed](#)
 4. Yamaguchi M, *et al.* 1999. *J. Immunol.* 162:5455.

Description: 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

FcεR1α 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.

**Antigen
References:**

1. Riske F, *et al.* 1991. *J. Biol. Chem.* 266:11245
2. Gounni AS, *et al.* 2001. *FASEB J.* 15:940.
3. Maurer D, *et al.* 1996. *J. Immunol.* 157:607
4. Maurer d, *et al.* 1994. *J. E*