Product Data Sheet

APC/Cy7 anti-human FcÎμRIα

Catalog # / 2273155 / 25 tests

Size: 2273160 / 100 tests

Clone: AER-37 (CRA-1)

Isotype: Mouse IgG2b, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

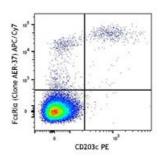
chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.

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 FcεRlα (clone AER-37) APC/Cy7 (top), or mouse lgG2b, κ APC/Cy7 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.

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.

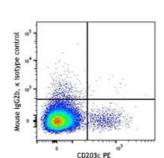
2. Suzukawa M, et al. 2005. Int. Immunol. 17:1249.

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 (FcɛRI) plays a key role in IgE-mediated allergic immune response. FcɛRI is a tetrameric receptor complex, which is composed of one α -subunit (FcɛRI α), one β -subunit, and two γ -subunits. FcɛRI α directly binds IgE with high affinity, while the β - and γ -chains are responsible for mediating intracellular signals. FcɛRI α is a 50 kD transmembrane protein with Ig superfamily structure. It is primarily found on mast cells and basophils. Further studies have indicated that FcɛRI α is also expressed on many inflammatory cells including cutaneuos 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