Product Data Sheet

APC/Fire™ 750 anti-human FcεRlα

Catalog # / 2273220 / 100 tests

Size: 2273215 / 25 tests

Clone: AER-37 (CRA-1)

Isotype: Mouse IgG2b, κ Immunogen: Human Ig cocktail

Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity

chromatography and conjugated with

APC/Fire™ 750 under optimal

conditions.

Formulation: Phosphate-buffered solution, pH 7.2,

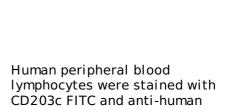
containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop **Number:**

VI MA36

Concentration: Lot-specific



FcεRIα (clone AER-37 (CRA-1)) APC/Fire™ 750 (left) or Mouse IgG2b, κ APC/Fire™ 750 isotype

control (right).

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 µl per million cells in 100 μl staining volume or 5 μl per

100 µl of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum

emission of 787 nm.

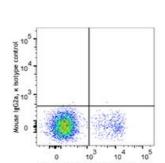
Application Notes:

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 (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. Exp. Med. 179:745
- 5. Campbell AM, et al. 1998. Am. J. Respir. Cell Mol. Biol. 19:92.