Brilliant Violet 421™ anti-human FcεRIα

Catalog # / Size: 2273120 / 100 tests

2273115 / 25 tests

Clone: AER-37 (CRA-1) Isotype: Mouse IgG2b, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and

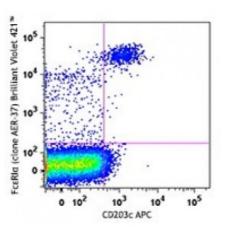
unconjugated antibody.

Phosphate-buffered solution, pH 7.2, Formulation:

containing 0.09% sodium azide and BSA

(origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD203c APC and FcεRIα (clone AER-37) Brilliant Violet 421™ (top) or mouse IgG2b, κ Brilliant Violet 421[™] isotype control (bottom).

Applications:

Applications: Flow Cytometry

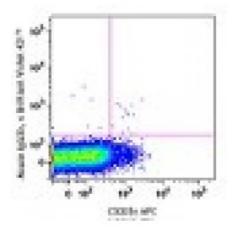
Recommended

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.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421[™] is a trademark of Sirigen Group Ltd.

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Application Clone AER-37 (CRA-1) has been reported Notes:

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. Fc ϵ RI is a tetrameric receptor complex, which is composed of one α subunit (Fc ϵ RI α), one β -subunit, and two γ -subunits. Fc ϵ RI α 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 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