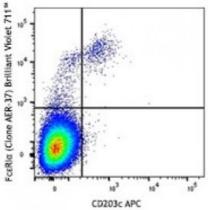
Product Data Sheet

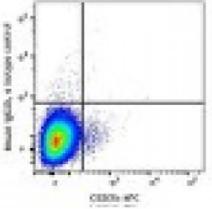
Brilliant Violet 711® anti-human Fc?RI?

Catalog # / Size:	2273185 / 25 tests 2273190 / 100 tests	
Clone:	AER-37 (CRA-1)	
Isotype:	Mouse lgG2b, κ	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 711 [™] and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	
Concentration:	Lot-specific	



Applications:

Applications:	Flow Cytometry	1.1
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 711 [™] excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 711 [™] is a trademark of Sirigen Group Ltd.	Human perip Iymphocytes CD203c APC a 37) Brilliant V mouse IgG2b 711™ isotype
Application Notes:	Clone AER-37 (CRA-1) has been reported to bind the receptor even in the presence of IgE.4	
Application References:	 Yamaguchi M, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:5455. Suzukawa M, <i>et al.</i> 2005. <i>Int. Immunol.</i> 17:1249. Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) <u>PubMed</u> Yamaguchi M, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:5455. 	



Human peripheral blood ymphocytes were stained with CD203c APC and FcεRIα (clone AER-37) Brilliant Violet 711[™] (top) or mouse IgG2b, κ Brilliant Violet 711[™] isotype control (bottom).

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com **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.

Antigen1. Riske F, et al. 1991. J. Biol. Chem. 266:11245References: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*