Datasheet for ABIN2451978

anti-Fc epsilon RI/FCER1A antibody (AA 85-172) (FITC)

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Overview

Quantity:	50 µg
Target:	Fc epsilon RI/FCER1A (FCER1A)
Binding Specificity:	AA 85-172
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Fc epsilon RI/FCER1A antibody is conjugated to FITC
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	AA 85-172 of FcepsilonR1alpha
Clone:	CRA2
Isotype:	IgG1 kappa
Characteristics:	The IgG fraction was purified from serum free culture medium of mouse hybridoma (CRA2) by propriety chromatography under mild conditions.
Purification:	Purified
Sterility:	Sterile filtered

Target Details

Target:	Fc epsilon RI/FCER1A (FCER1A)
Abstract:	FCER1A Products
Background:	FcεR1alpha is subunit of the high affinity receptor for IgE to which IgE directly binds. Fcε R1alpha is a tetrameric complex consisting of one alpha, one beta and two γ subunits. The latter two are required for signal transduction activity. The FcεR1 complex plays an important role in triggering allergic responses. The CRA2 (AER24) monoclonal antibody reacts with the Fc εR1alpha subunit on a region that overlaps the region of the IgE binding site, thus it competes with IgE for the receptor binding. Since the CRA1 (AER37) monoclonal antibody reacts with the site different from the IgE binding site on FcεR1alpha, it does not compete with IgE for the receptor binding. Combining the two antibodies, one can quantitatively measure the amounts of the IgE-bound FcεR1alpha.
UniProt:	P12319
Pathways:	Fc-epsilon Receptor Signaling Pathway, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Application Notes:	1) FACS 2) Immunohistochemistry and immunocytochemistry 3) Inhibition of binding of IgE with FcepsilonR1alpha. Titration of IgE-bound fraction of the FcepsilonR1alpha using CRA1 and CRA2 antibodies
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS (pH 7.4), 50 % glycerol
Preservative:	Azide free
Storage:	-20 °C

Publications

Product cited in:	Takai, Yuuki, Iwamoto-Yasue, Okumura, Ra: "Epitope analysis and primary structures of variable

regions of anti-human FcepsilonRI monoclonal antibodies, and expression of the chimeric antibodies fused with human constant regions." in: **Bioscience, biotechnology, and biochemistry**, Vol. 64, Issue 9, pp. 1856-67, (2001) (PubMed).

Takai, Okumura, Ra: "Direct expression of the extracellular portion of human FcepsilonRIalpha chain as inclusion bodies in Escherichia coli." in: **Bioscience, biotechnology, and biochemistry**, Vol. 65, Issue 1, pp. 79-85, (2001) (PubMed).

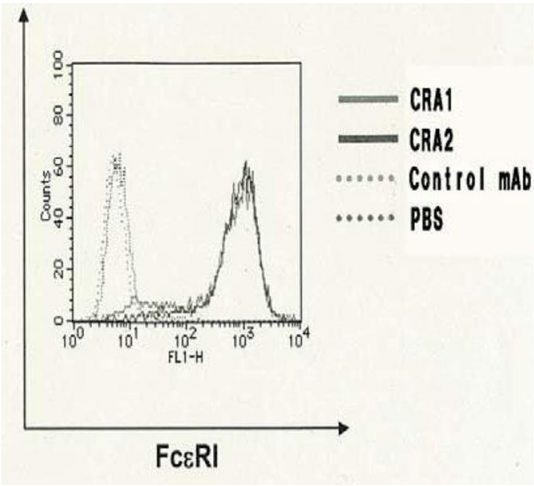
Goto, Soma, Ra, Kawa, Kubota, Mizoguchi: "Enhanced expression of the high-affinity receptor for IgE (Fc(epsilon)RI) associated with decreased numbers of Langerhans cells in the lesional epidermis of atopic dermatitis." in: **Journal of dermatological science**, Vol. 27, Issue 3, pp. 156-61, (2001) (PubMed).

Hasegawa, Pawankar, Suzuki, Nakahata, Furukawa, Okumura, Ra: "Functional expression of the high affinity receptor for IgE (FcepsilonRI) in human platelets and its' intracellular expression in human megakaryocytes." in: **Blood**, Vol. 93, Issue 8, pp. 2543-51, (1999) (PubMed).

Hakimi, Seals, Kondas, Pettine, Danho, Kochan: "The alpha subunit of the human IgE receptor (FcERI) is sufficient for high affinity IgE binding." in: **The Journal of biological chemistry**, Vol. 265, Issue 36, pp. 22079-81, (1991) (PubMed).

There are more publications referencing this product on: Product page

Images



Flow Cytometry

Image 1.