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Datasheet for ABIN2451978

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

1 Image

6 Publications

### 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

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Target: Fc epsilon RI/FCER1A (FCER1A)

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Abstract: [FCER1A Products](#)

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Background: FcεR1alpha is subunit of the high affinity receptor for IgE to which IgE directly binds. FcεR1alpha 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 FcεR1alpha 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.

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UniProt: [P12319](#)

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Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

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## Application Details

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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

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: PBS (pH 7.4), 50 % glycerol

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Preservative: Azide free

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Storage: -20 °C

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## Publications

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Product cited in: Freed: "HIV-1 gag proteins: diverse functions in the virus life cycle." in: **Virology**, Vol. 251, Issue 1

, pp. 1-15, (1998) ([PubMed](#)).

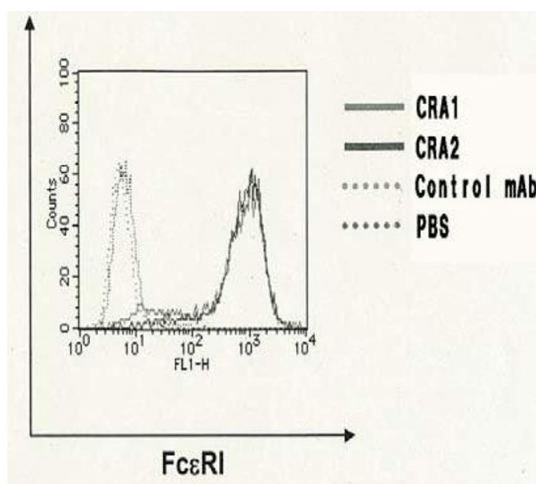
Saito, Morimoto, Ohara, Takamizawa, Nakata, Shinagawa: "Overproduction, purification, and diagnostic use of the recombinant HIV-1 Gag proteins, the precursor protein p55 and the processed products p17, p24, and p15." in: **Microbiology and immunology**, Vol. 39, Issue 7, pp. 473-83, (1996) ([PubMed](#)).

Adachi, Gendelman, Koenig, Folks, Willey, Rabson, Martin: "Production of acquired immunodeficiency syndrome-associated retrovirus in human and nonhuman cells transfected with an infectious molecular clone." in: **Journal of virology**, Vol. 59, Issue 2, pp. 284-91, (1986) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

## Images

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### Flow Cytometry

Image 1.