Datasheet for ABIN2451977

# anti-Fc epsilon RI/FCER1A antibody (Biotin)

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## Overview

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|---|---|
| Quantity: | 50 µg |
| Target: | Fc epsilon RI/FCER1A (FCER1A) |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Fc epsilon RI/FCER1A antibody is conjugated to Biotin |
| Application: | Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC) |

## Product Details

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|---|---|
| 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) |
| Abstract: | FCER1A Products |

## Target Details

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| 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

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| Application Notes: | 1) Western blotting: ~1 g/mL<br>2) FACS<br>3) Immunohistochemistry<br>4) Titration of IgE-bound fraction of the FcepsilonR1alpha using CRA1 and CRA2 antibodies |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 0.9 mg/mL |
| Buffer: | PBS ( pH 7.4), 50 % glycerol |
| Preservative: | Azide free |
| Storage: | -20 °C/-80 °C |
| Storage Comment: | -20 C (For long term storage: -70 C) |

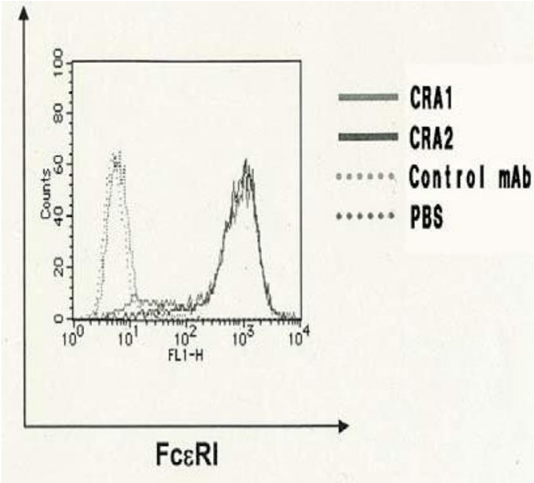
## Publications

| | |
|---|---|
| Product cited in: | Murayama, Kurokawa, Mayanagi, Iwasaki: "Formation and branch migration of Holliday junctions mediated by eukaryotic recombinases." in: **Nature**, Vol. 451, Issue 7181, pp. 1018-21, ( 2008) (PubMed). |

## Publications

Kurumizaka, Aihara, Kagawa, Shibata, Yokoyama: "Human Rad51 amino acid residues required for Rad52 binding." in: **Journal of molecular biology**, Vol. 291, Issue 3, pp. 537-48, (1999) ( PubMed).

## Images




**Flow Cytometry**

**Image 1.**