

# FCER1A Recombinant Rabbit mAb

Catalog # AP98676

## Product Information

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| <b>Application</b>             | WB, IHC-P, IHC-F, IF, E                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Primary Accession</b>       | <a href="#">P12319</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Other Accession</b>         | <a href="#">P12319</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Clonality</b>               | Recombinant                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Calculated MW</b>           | 29596                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>SIMILARITY</b>              | Contains 2 Ig-like (immunoglobulin-like) domains.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Background Descriptions</b> | The immunoglobulin epsilon receptor (IgE receptor) is the initiator of the allergic response. When two or more high-affinity IgE receptors are brought together by allergen-bound IgE molecules, mediators such as histamine that are responsible for allergy symptoms are released. This receptor is comprised of an alpha subunit, a beta subunit, and two gamma subunits. The protein encoded by this gene represents the alpha subunit. [provided by RefSeq, Aug 2011] |

## Additional Information

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| <b>Gene ID</b>     | 2205                                                                                                                                                                                                                                                                                                                                           |
| <b>Other Names</b> | FCE1A; FCERIA; FcERI; FCERA_HUMAN; FCER1A; Fc-epsilon RI-alpha (FcERI); IgE Fc receptor subunit alpha; Fc epsilon receptor Ia; Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide; Fc fragment of IgE receptor Ia; FcepsilonRI alpha chain; High affinity immunoglobulin epsilon receptor subunit alpha; Fc-epsilon RI-alpha |
| <b>Dilution</b>    | IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10 000                                                                                                                                                                                                                                                                    |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                                                                                                                                |

## Protein Information

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| <b>Name</b>     | FCER1A |
| <b>Synonyms</b> | FCE1A  |

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| <b>Function</b>          | High-affinity receptor for immunoglobulin epsilon/IgE. Mediates IgE effector functions in myeloid cells. Upon IgE binding and antigen/allergen cross-linking initiates signaling pathways that lead to myeloid cell activation and differentiation. On mast cells, basophils and eosinophils stimulates the secretion of vasoactive amines, lipid mediators and cytokines that contribute to inflammatory response, tissue remodeling and cytotoxicity against microbes. Triggers the immediate hypersensitivity response to allergens as a host defense mechanism against helminth parasites, pathogenic bacteria and venom toxicity. When dysregulated, it can elicit harmful life-threatening allergic and anaphylactic reactions. |
| <b>Cellular Location</b> | Cell membrane; Single-pass type I membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Tissue Location</b>   | Expressed in eosinophils.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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