

Human Allergin-1 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 767727

Catalog Number: FAB7638T

100 µg

| DESCRIPTION | | | | | | |
|--------------------|--|--|--|--|--|--|
| Species Reactivity | Human | | | | | |
| Specificity | Detects human Allergin-1 in direct ELISAs. | | | | | |
| Source | Monoclonal Mouse IgG ₁ Clone # 767727 | | | | | |
| Purification | Protein A or G purified from hybridoma culture supernatant | | | | | |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human Allergin-1 Met1-Lys227 Accession # Q7Z6M3 | | | | | |
| Conjugate | Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm | | | | | |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. | | | | | |

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Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

| | Recommended Concentration | Sample |
|----------------|---------------------------------|----------------------------------|
| Flow Cytometry | 0.25-1 μg/10 ⁶ cells | Human peripheral blood monocytes |

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze

• 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

MCA32 (Mast Cell Antigen; also Allergin-1 and c17orf60) is a 70 kDa member of the Ig Superfamily. It is expressed on mast cells, basophils, neutrophils and macrophages, and is reported to negatively regulate allergic mediator release from mast cells. In particular, MCA32 interacts with Fc&RI. Upon IgE mediated Fc&RI aggregation and activation, Allergin-1 recruits Tyr phosphatases to a Fc&RI tetrameric complex, dampening IgE receptor downstream signaling. Mature human Allergin-1 is a monomeric type I transmembrane glycoprotein that is 324 amino acids (aa) in length. It contains two C2-type Ig domains (aa 35-118 and 123-217) in the extracellular region (aa 20-227), plus a 95 aa cytoplasmic domain that possesses two ITIM motifs. Two 40 kDa splice variants exist that show deletions of the Ig-like domains. One isoform termed Allergin-1S1 is missing aa 128-217, while a second isoform called Allergin-1S2 is missing aa 33-122. This second isoform represents the antigen used for immunization in this product (GenBank BAJ08253). Over aa 29-131, the Allergin-1S2 isoform shares 100% sequence identity with human Allergin-1L full length isoform and only 24% aa sequence identity with mouse Allergin-1.

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