

Datasheet for ABIN2749104
anti-IL3RA antibody (FITC)



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Overview

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| Quantity: | 100 tests |
| Target: | IL3RA |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This IL3RA antibody is conjugated to FITC |
| Application: | Flow Cytometry (FACS) |

Product Details

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| Immunogen: | IL3 receptor alpha chain expressed on the surface of transiently transfected COS cells |
| Clone: | 6H6 |
| Isotype: | IgG1 |
| Specificity: | The mouse monoclonal antibody 6H6 recognizes an extracellular epitope of CD123 (interleukin 3 receptor alpha), a 60-70 kDa transmembrane protein expressed by myeloid precursors, megakaryocytes, macrophages, dendritic cells, mast cells, basophils, and some B cells. This antibody does not inhibit IL-3 binding to its receptor. |
| Cross-Reactivity (Details): | Human |
| Purification: | Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

Target Details

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| Target: | IL3RA |
| Alternative Name: | CD123 (IL3RA Products) |
| Background: | Interleukin 3 receptor subunit alpha,CD123 is the alpha chain of interleukin 3 receptor (IL-3R alpha). This subunit heterodimerizes with the interleukin 3 receptor beta chain (CD131), which is shared with other receptors. CD123 interacts with IL-3 specifically, but with low affinity, and association with the beta subunit confers high affinity binding to the receptor heterodimer. Both chains are required for signaling, but receptor activation and signal transduction depend on IL-3 binding to CD123 as the initial step.,IL3RA, MGC34174, hIL-3Ra |
| Gene ID: | 3563 |
| UniProt: | P26951 |
| Pathways: | JAK-STAT Signaling |

Application Details

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| Application Notes: | Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. |
| Comment: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary. |
| Restrictions: | For Research Use only |

Handling

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| Buffer: | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze. |

Publications

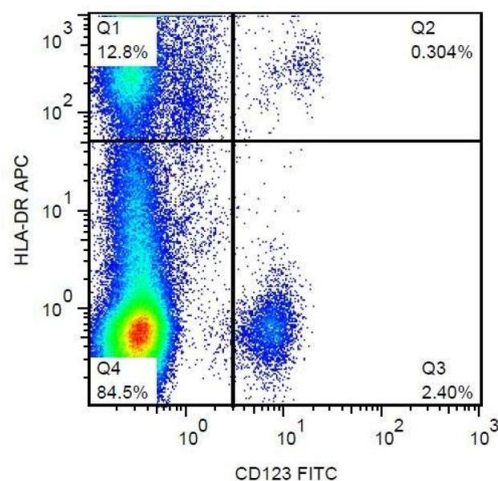
| | |
|-------------------|--|
| Product cited in: | Martín-Gayo, Sierra-Filardi, Corbí, Toribio: "Plasmacytoid dendritic cells resident in human |
|-------------------|--|

thymus drive natural Treg cell development." in: **Blood**, Vol. 115, Issue 26, pp. 5366-75, (2010) ([PubMed](#)).

Herling, Teitell, Shen, Medeiros, Jones: "TCL1 expression in plasmacytoid dendritic cells (DC2s) and the related CD4+ CD56+ blastic tumors of skin." in: **Blood**, Vol. 101, Issue 12, pp. 5007-9, (2003) ([PubMed](#)).

Sun, Woodcock, Rapoport, Stomski, Korpelainen, Bagley, Goodall, Smith, Gamble, Vadas, Lopez: "Monoclonal antibody 7G3 recognizes the N-terminal domain of the human interleukin-3 (IL-3) receptor alpha-chain and functions as a specific IL-3 receptor antagonist." in: **Blood**, Vol. 87, Issue 1, pp. 83-92, (1996) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Surface staining of human peripheral blood with anti-CD123 (6H6) FITC.