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Datasheet for ABIN2749104
anti-IL3RA antibody (FITC)

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Overview

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

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

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

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

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

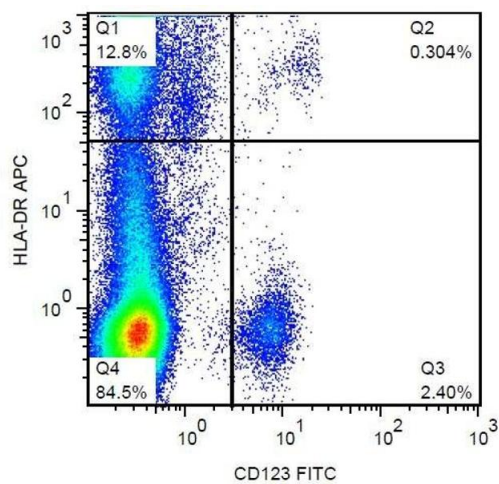
Product cited in:	Martín-Gayo, Sierra-Filardi, Corbí, Toribio: "Plasmacytoid dendritic cells resident in human
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thymus drive natural Treg cell development." in: **Blood**, Vol. 115, Issue 26, pp. 5366-75, (2010) ([PubMed](#)).

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.