

Datasheet for ABIN7505854
anti-IL2RG antibody (APC)

3 Images

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Overview

Quantity:	100 tests
Target:	IL2RG
Reactivity:	Human, Dog
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL2RG antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu CD132 APC
Immunogen:	Human CD132-transfected cell line
Clone:	TUGh4
Isotype:	IgG2b kappa
Specificity:	The rat monoclonal antibody TUGh4 recognizes an extracellular epitope of CD132 (the common gamma chain), a 65-70 kDa type I transmembrane glycoprotein broadly expressed by most leukocytes.
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

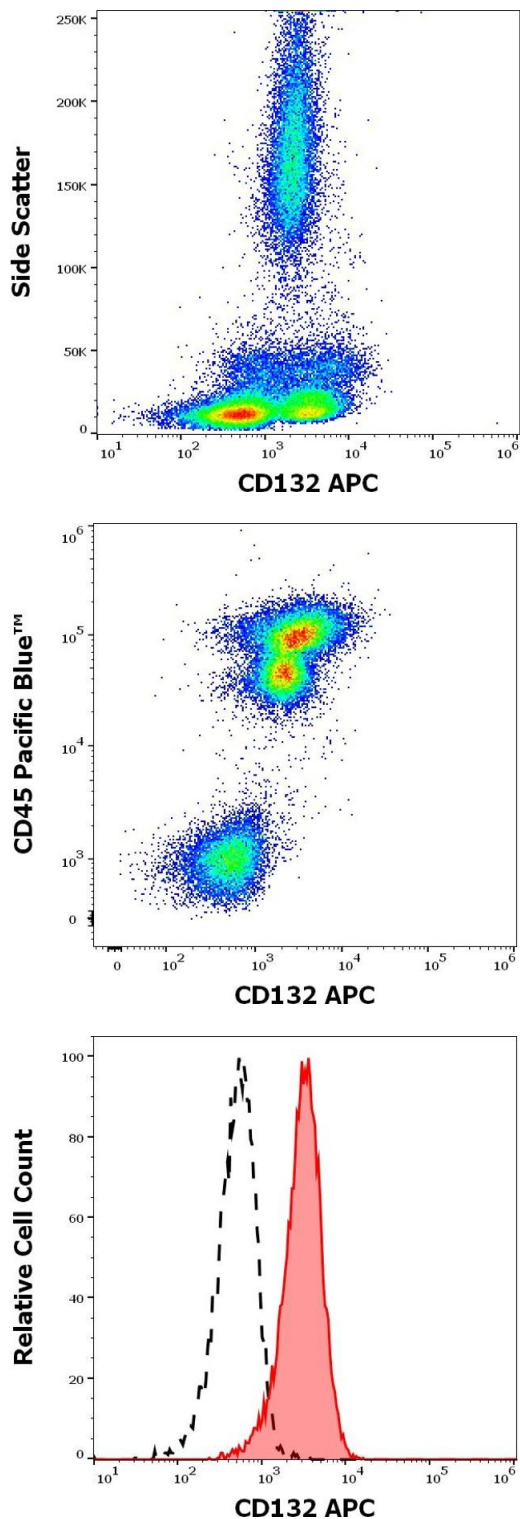
Target:	IL2RG
Alternative Name:	CD132 (IL2RG Products)
Background:	Interleukin 2 receptor subunit gamma,CD132 / common gamma chain is an essential component of receptors for IL-2, IL-4, IL-7, IL-9, IL-15, and IL-21, and it is critical for development of the immune system. Its mutation causes X-linked severe combined immunodeficiency disease (XSCID). CD132 is expressed on lymphocytes, NK cells, monocytes, and granulocytes. Through its cytoplasmic part which contains four tyrosines and an SH2 domain, CD132 transduces signal to downstream JAK/STAT pathway.,common gamma chain, IL2RG, SCIDX, IMD4
Gene ID:	3561
UniProt:	P31785
Pathways:	JAK-STAT Signaling , Growth Factor Binding

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
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.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD132 (TUGh4) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 2. Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD132 (TUGh4) APC antibody (10 µL reagent / 100 µL of peripheral whole blood) and anti-human CD45 (MEM-28) Pacific Blue antibody (4 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 3. Separation of human lymphocytes (red-filled) from blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD132 (TUGh4) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).