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30-1103AC: APC Conjugated Anti-CD132 Monoclonal Antibody (Clone: TUGh4)

Clonality :	Monoclonal
Clone Name :	TUGh4
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	IL2RG
Gene ID :	3561
Uniprot ID :	P31785
Format :	Purified
Alternative Name :	IL2RG
Isotype :	Rat IgG2b
Immunogen Information :	Human CD132-transfected cell line

Description

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 containsfour tyrosines and an SH2 domain, CD132 transcuces signal to downstream JAK/STAT pathway.

Product Info

Amount :	100 Tests
Purification :	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C protected from light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

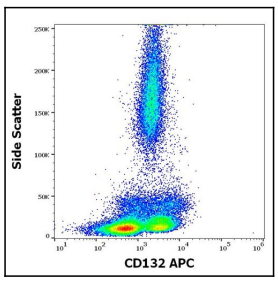

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD132 (TUGh4) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

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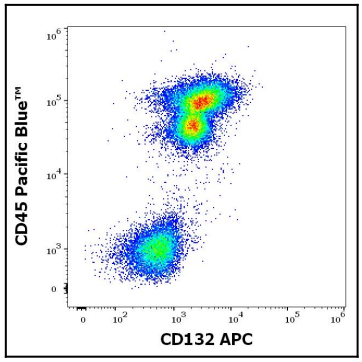

Figure 2: Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD132 (TUGh4) APC antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD45 (MEM-28) Pacific Blue™ antibody (4 µl reagent / 100 µl of peripheral whole blood).

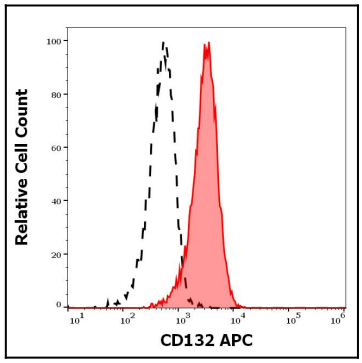

Figure 3: Separation of human lymphocytes (red-filled) from blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD132 (TUGh4) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

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