

anti-Human, Dog CD132 Antibody | anti-CD132 antibody

Anti-Hu CD132 APC

CATALOG # AAA129305	REACTIVITY Human, Dog	APPLICATIONS Flow Cytometry, Functional Assay
-------------------------------	---------------------------------	---

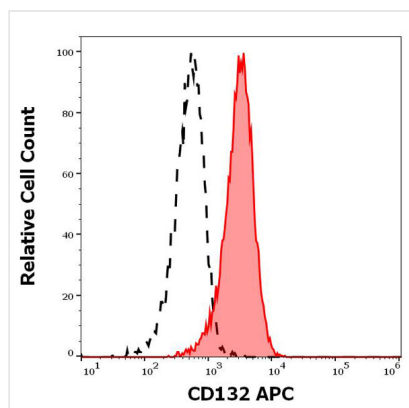
PRODUCT SYNONYMS

CD132; Anti-Hu CD132 APC; interleukin 2 receptor subunit gamma; common gamma chain; IL2RG; SCIDX; IMD4; anti-CD132 antibody

PRODUCT SPECIFICATIONS

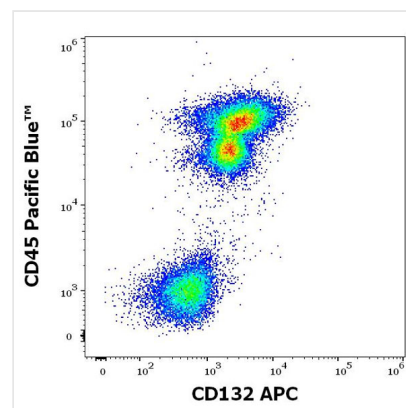
Reactivity	Human, Dog
Isotype	Rat IgG2b kappa
Clone Number	TUGh4
Specificity	The rat monoclonal antibody TUGh4 recognizes an extracellular epitope of CD132 (the common gamma chain), a 65-70 kDa type I transmembrane glycoprotein broadly expressed by most leukocytes.
Form/Format	APC Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 m
Applicable Applications for anti-CD132 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human CD132-transfected cell line
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



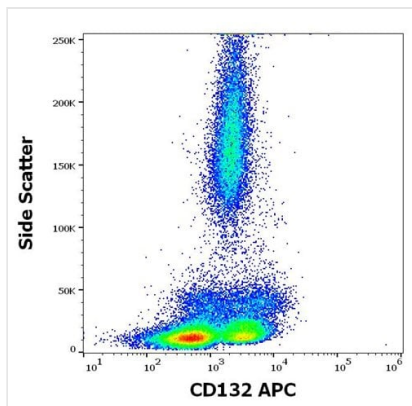
FCM/FACS (Flow Cytometry)

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 μ l reagent / 100 μ l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

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



FCM/FACS (Flow Cytometry)
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).

ADDITIONAL INFORMATION

Related Product Information for anti-CD132 antibody	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.
References	*Corrigall VM, Arastu M, Khan S, Shah C, Fife M, Smeets T, Tak PP, Panayi GS: Functional IL-2 receptor beta (CD122) and gamma (CD132) chains are expressed by fibroblast-like synoviocytes: activation by IL-2 stimulates monocyte chemoattractant protein-1 production. J Immunol. 2001 Mar 15;166(6):4141-7., URL: https://pubmed.ncbi.nlm.nih.gov/11238664/,*Brisslert M, Bokarewa M, Larsson P, Wing K, Collins LV, Tarkowski A: Phenotypic and functional characterization of human CD25+ B cells. Immunology. 2006 Apr;117(4):548-57., URL: http://www.ncbi.nlm.nih.gov/pubmed/16556269,*Amu S, Brisslert M: Phenotype and function of CD25-expressing B lymphocytes isolated from human umbilical cord blood. Clin Dev Immunol. 2011;2011:481948., URL: http://www.ncbi.nlm.nih.gov/pubmed/21941578,*Fiorito S, Magrini L, Adrey J, Mailhé D, Brouty-Boyé D: Inflammatory status and cartilage regenerative potential of synovial fibroblasts from patients with osteoarthritis and chondropathy. Rheumatology (Oxford). 2005 Feb;44(2):164-71., URL: http://www.ncbi.nlm.nih.gov/pubmed/15479753,*Marino JH, Tan C, Taylor AA, Bentley C, Van De Wiele CJ, Ranne R, Paliotta M, Broughan TA, Teague TK: Differential IL-7 responses in developing human thymocytes. Hum Immunol. 2010 Apr;71(4):329-33., URL: http://www.ncbi.nlm.nih.gov/pubmed/20074604,*Itano M, Tsuchiya S, Morita S, Fujie H, Ishii N, Yanagisawa T, Ohashi Y, Minegishi M, Sugamura K, Konno T: IL-2 receptor gamma chain expression on CD34 positive hematopoietic progenitor cells from bone marrow and cord blood. Tohoku J Exp Med. 1996 Apr;178(4):389-98., URL: http://www.ncbi.nlm.nih.gov/pubmed/8804156,

NCBI AND UNIPROT INFORMATION

NCBI GI #	400048
NCBI GeneID	3561
UniProt Accession #	P31785; Q5FC12
Molecular Weight	369
NCBI Official Full Name	Cytokine receptor common subunit gamma
NCBI Official Synonym Full Names	interleukin 2 receptor, gamma
NCBI Official Symbol	IL2RG
NCBI Official Synonym Symbols	P64; CIDX; IMD4; CD132; SCIDX; IL-2RG; SCIDX1
NCBI Protein Information	cytokine receptor common subunit gamma; gammaC; CD132 antigen; IL-2R subunit gamma; IL-2 receptor subunit gamma; common cytokine receptor gamma chain
UniProt Protein Name	Cytokine receptor common subunit gamma

UniProt Gene Name	IL2RG
UniProt Synonym Gene Names	IL-2 receptor subunit gamma; IL-2R subunit gamma; IL-2RG
UniProt Entry Name	IL2RG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/dog-human-antibody/cd132/129305>