

IL-4 recombinant antibody

Anti-IL-4 [SB240683 (Pascolizumab, humanized 3B9)], Human IgG1, kappa

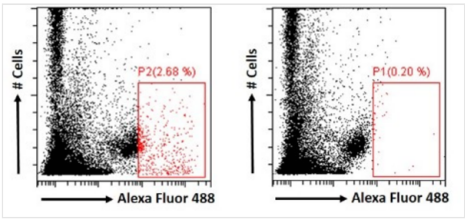
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72530	Human	Human, cynomolgus monkeys	Functional Assay, ELISA

PRODUCT SYNONYMS

IL-4; Monoclonal Recombinant Antibody; Anti-IL-4 [SB240683 (Pascolizumab; humanized 3B9)]; Human IgG1; kappa; IL4; BSF-1; Interleukin-4; B-cell stimulatory factor 1; Binetrakin; Lymphocyte stimulatory factor 1; Pitrakinra; IL-4 recombinant antibody

PRODUCT SPECIFICATIONS

Host	Human
Reactivity	Human, cynomolgus monkeys
Clonality	Monoclonal
Isotype	Human IgG1 kappa
Clone Number	SB240683 (Pascolizumab, humanized 3B9)
Specificity	This antibody binds human and cynomolgus monkey IL-4 and does not cross react with IL-4 from mouse, rat, cow, goat or horse. It does show binding to glycosylated interleukin-4. Interleukin-4 is a receptor for both interleukin 4 and interleukin 13. It couples to the JAK1/2/3-STAT6 pathway. The IL4 response is involved in promoting Th2 differentiation. The IL4/IL13 responses are involved in regulating IgE production and, chemokine and mucus production at sites of allergic inflammation. In certain cell types, can signal through activation of insulin receptor substrates, IRS1/IRS2.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for IL-4 recombinant antibody	FA (Functional Assay), Blocking, IA (Inhibition Assay), ELISA
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flowcytometryusinganti-IL-4antibodySB240683(Pascolizumab,humanized3B9)(AAA72530). Humanbloodleukocytesrestedfor4hoursat37°C,thenfixedwith2%PFAandpermeabilizedwith0.5%Triton,werestainedwiththeanti-unknownspecificityantibodyortherabbitIgGversionofSB240683(AAA72530,left)atadilutionof1:100overnightat4°C.Afterwashing,theboundantibodywasdetectedusingagoatanti-rabbitIgGAlexaFluor488antibodyatadilutionof1:1000,andthecellswereanalyzedusingaFACSCantoflow-cytometer.

IF (Immunofluorescence)
Immunofluorescence
fixcoverslip
right, top-bottom

ADDITIONAL INFORMATION

Related Product Information for IL-4 recombinant antibody	The original mouse antibody was generated by immunizing F1 hybrids of Balb/c and C57BL/6 mice with recombinant human IL-4 in Freund's complete adjuvant. The humanized version was generated by grafting CDRs of murine parent antibody onto human IgG1 kappa heavy- and light-chain frameworks.
References	Hart et al. Preclinical efficacy and safety of pascolizumab (SB 240683): a humanized anti-interleukin-4 antibody with therapeutic potential in asthma. Clin Exp Immunol. 2002 Oct;130(1):93-100. N/A12296858 Note on publication: The preclinical safety and efficacy of humanized version of anti-IL-4 antibody 3B9 (SB240683, Pascolizumab) was tested.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504669
NCBI GeneID	3565
NCBI Accession #	NP_000580.1
NCBI GenBank Nucleotide #	NM_000589.3
UniProt Accession #	P05112; Q14630
Molecular Weight	17,492 Da
NCBI Official Full Name	interleukin-4 isoform 1
NCBI Official Synonym Full Names	interleukin 4
NCBI Official Symbol	IL4
NCBI Official Synonym Symbols	BSF1; IL-4; BCGF1; BSF-1; BCGF-1
NCBI Protein Information	interleukin-4; binetrakin; pitrakinra; B cell growth factor 1; B_cell stimulatory factor 1; lymphocyte stimulatory factor 1
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; BSF-1
UniProt Entry Name	IL4_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/il-4-recombinant-antibody-clone-sb240683-pascolizumab-humanized-3b9-functional-assay-inhibition-assay-elisa/72530>