

Mouse IL-2R alpha (CD25) Antibody | anti-IL-2Ralpha antibody

Anti-IL-2R alpha (CD25)[Basiliximab], Mouse IgG1

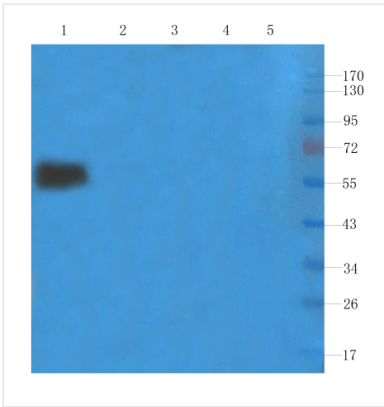
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14188	Mouse	Human, Rhesus Monkey, Cynomolgus Monkey	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

IL-2R alpha (CD25); Anti-IL-2R alpha (CD25)[Basiliximab]; Mouse IgG1; Interleukin-2 receptor subunit alpha; IL-2 receptor subunit alpha; IL-2R subunit alpha; IL-2-RA; IL2-RA; TAC antigen; p55; CD25.; anti-IL-2Ralpha antibody

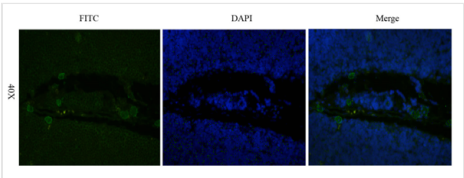
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rhesus Monkey, Cynomolgus Monkey
Isotype	Mouse IgG1, Kappa
Clone Number	Basiliximab
Specificity	Basiliximab recognises the human IL-2R and binds to the epitope (116)ERIYHFV(122) within the extracellular domain of the CD25 subunit - binding is abolished when 2 or more residues within the epitope are mutated. This epitope overlaps with the interaction site of CD25 and IL-2. CD25 is found in the high-affinity IL-2R (alphabeta gamma delta) - T cells only express CD25 upon activation. IL-2 binding to IL-2R on T cells modulates proliferation and differentiation.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-IL-2Ralpha antibody	FCM/FACS (Flow Cytometry), Blocking, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Basiliximab was prepared by immunizing BALB/c mice with CTC 16 cells.
Chimeric Use Statement	This is a research-grade biosimilar. This is a chimeric antibody created for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



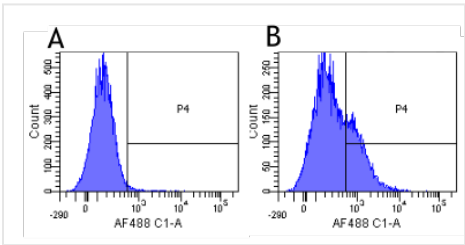
WB (Western Blot)

Western Blot using anti-IL2R alpha (CD25) antibody AAA14188 Human thyroid cancer (lane 1), rat spleen (lane 2), mouse lymph node (lane 3), mouse thymus (lane 4) and rat small intestines (lane 5)samples were resolved on a 10% SDS PAGE gel and blots probed with AAA14188-10.0 at 1 ug/ml before being detected by a secondary antibody.



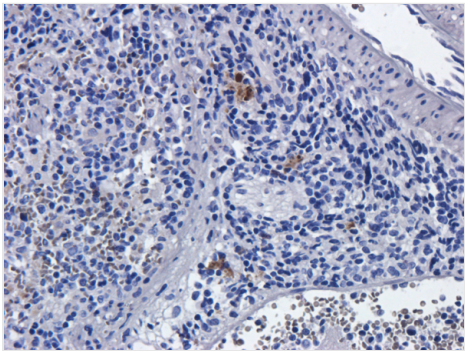
IF (Immunofluorescence)

Immunofluorescent staining of rat thymus using anti-CD25 antibody AAA14188 Formaldehyde-fixed rat thymus slices were stained with AAA14188-10.0 at 5 ug/ml and detected with a FITC-conjugated secondary antibody. AAA14188 shows weak labelling of rat cells by IF.



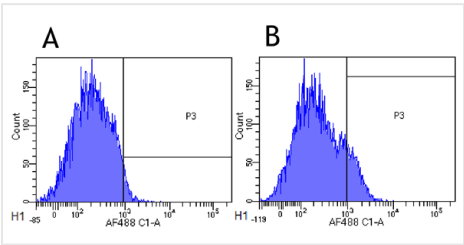
FCM (Flow Cytometry)

Flow-cytometry using the anti-CD25 (IL2R) research biosimilar antibody Basiliximab (AAA14188) Human lymphocytes were stained with an isotype control or the rabbit-chimeric version of Basiliximab (AAA14188-23.0, panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody (ab150073) and cells analysed on a FACSCanto flow-cytometer.



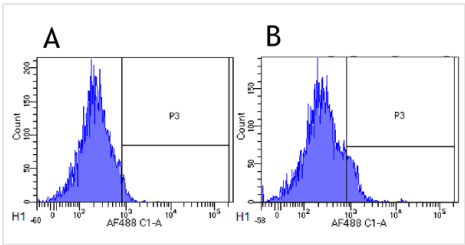
IHC (Immunohistochemistry)

Immunohistochemical staining of rat spleens using anti-CD25 antibody AAA14188 Formalin fixed rat spleen slices were stained with a AAA14188-10.0 at 5 ug/ml. The anti-human CD25 antibody AAA14188 also shows some cross-reactivity with rat in IHC.



FCM (Flow Cytometry)

Flow-cytometry using anti-CD25 antibody Basiliximab (AAA14188) Cynomolgus monkey lymphocytes were stained with an isotype control or the rabbit-chimeric version of Basiliximab (AAA14188-23.0, panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody (ab150073) and cells analysed on a FACSCanto flow-cytometer.



FCM (Flow Cytometry)

Flow-cytometry using anti-CD25 antibody Basiliximab (AAA14188) Rhesus monkey lymphocytes were stained with an isotype control or the rabbit-chimeric version of Basiliximab (AAA14188-23.0, panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody (ab150073) and cells analysed on a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-IL-2Ralpha antibody

Basiliximab is derived from the murine anti-Tac antibody. For the clinically used format, the variable regions from this antibody were grafted onto the sequence of the human IgG1kappa constant regions. Basiliximab binding to CD25 competitively blocks the interaction of IL-2R with its ligand IL-2 on the surface of T cells. Blocking this interaction prevents T cell replication and T cell-mediated B cell activation. Basiliximab binding suppresses the immune system inhibits the pathway activating the cellular immune response to allograft rejection. IL-2 signalling suppression can additionally prevent acute graft-versus-host disease, autoimmune disorders and malignancies such as T cell leukemias (Binder et al, 2007). Basiliximab has also been used in FC, IF, IHC and WB studies, which enables the detection of CD25.

Product Categories/Family for anti-IL-2Ralpha antibody	biosimilar
References	Kovarik et al. Disposition of basiliximab, an interleukin-2 receptor monoclonal antibody, in recipients of mismatched cadaver renal allografts. Transplantation. 1997 Dec 27;64(12):1701-5. PMID:9422405

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557667
NCBI GeneID	3559
NCBI Accession #	NP_000408.1
NCBI GenBank Nucleotide #	NM_000417.2
UniProt Accession #	P01589; Q5W007
Molecular Weight	30,819 Da
NCBI Official Full Name	interleukin-2 receptor subunit alpha
NCBI Official Synonym Full Names	interleukin 2 receptor, alpha
NCBI Official Symbol	IL2RA
NCBI Official Synonym Symbols	CD25; IL2R; TCGFR; IDDM10
NCBI Protein Information	interleukin-2 receptor subunit alpha; p55; IL2-RA; IL-2-RA; TAC antigen; IL-2R subunit alpha; IL-2 receptor subunit alpha
UniProt Protein Name	Interleukin-2 receptor subunit alpha
UniProt Gene Name	IL2RA
UniProt Synonym Gene Names	IL-2 receptor subunit alpha; IL-2-RA; IL-2R subunit alpha; IL2-RA
UniProt Entry Name	IL2RA_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/mouse-il-2ralpha-cynomolgus-monkey-human-monkey-rhesus-monkey-antibody/il-2r-alpha-cd25/14188>