

Rabbit anti-Mouse, Rat IL-2 Receptor alpha/IL2ra Polyclonal Antibody | anti-IL2RA antibody

Anti-IL-2 Receptor alpha/IL2ra Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125983	Rabbit	Mouse, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

IL-2 Receptor alpha/IL2ra; Polyclonal Antibody; Anti-IL-2 Receptor alpha/IL2ra Antibody Picoband; anti-IL2RA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-IL2RA antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence of mouse IL-2 Receptor alpha/IL2ra (PWKHEDSKRIYHFVE).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of HEPA1-6 cells using anti-IL-2 Receptor alpha/IL2ra antibody (AAA125983). Overlay histogram showing HEPA1-6 cells stained with AAA125983 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IL-2 Receptor alpha/IL2ra Antibody (AAA125983, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of IL-2 Receptor alpha/IL2ra using anti-IL-2 Receptor alpha/IL2ra antibody (AAA125983). IL-2 Receptor alpha/IL2ra was detected in a paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IL-2 Receptor alpha/IL2ra Antibody (AAA125983) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of IL-2 Receptor alpha/IL2ra using anti-IL-2 Receptor alpha/IL2ra antibody (AAA125983).IL-2 Receptor alpha/IL2ra was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IL-2 Receptor alpha/IL2ra Antibody (AAA125983) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of IL-2 Receptor alpha/IL2ra using anti-IL-2 Receptor alpha/IL2ra antibody (AAA125983).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: mouse ANA-1 whole cell lysates,Lane 2: mouse NIH/3T3 whole cell lysates,Lane 3: mouse RAW264.7 whole cell lysates,Lane 4: mouse HEPA1-6 whole cell lysates,Lane 5: rat C6 whole cell lysates,Lane 6: rat NRK whole cell lysates,Lane 7: rat RH35 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IL-2 Receptor alpha/IL2ra antigen affinity purified polyclonal antibody (#AAA125983) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for IL-2 Receptor alpha/IL2ra at approximately 50 kDa. The expected band size for IL-2 Receptor alpha/IL2ra is at 50 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-IL2RA antibody	IL2RA(Interleukin 2 receptor, alpha), also called IL2R, IL2R, Alpha Chain or CD25, is a protein that in humans is encoded by the IL2RA gene.The IL2RA gene is mapped on 10p15.1. IL2RA is composed of strand-swapped "sushi-like" domains, unlike the classical cytokine receptor fold. As a result of this domain swap, IL2RA uses a composite surface to dock into a groove on IL2 that also serves as a binding site for antagonist drugs.Homodimeric alpha chains(IL2RA) result in low-affinity receptor, while homodimeric beta(IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determined to result from extracellular proteolysis. Infection by the protozoan Trypanosoma cruzi causes Chagas disease, characterized by a reduction in the amount of IL2RA expressed on the surface of immune cells. This leads to chronic immune suppression, becoming increasingly severe over the course of many years and ultimately resulting in death if left untreated.
Product Categories/Family for anti-IL2RA antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	124318
NCBI GeneID	16184
UniProt Accession #	P01590; Q61731
Molecular Weight	30,723 Da
NCBI Official Full Name	Interleukin-2 receptor subunit alpha
NCBI Official Synonym Full Names	interleukin 2 receptor, alpha chain
NCBI Official Symbol	IL2ra
NCBI Official Synonym Symbols	CD25; IL2r; Ly-43
NCBI Protein Information	interleukin-2 receptor subunit alpha; IL2-RA; IL-2-RA; p55 chain; IL-2R alpha chain; 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	IL2r; IL-2 receptor subunit alpha; IL-2-RA; IL-2R subunit alpha; IL2-RA
UniProt Entry Name	IL2RA_MOUSE

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/polyclonal/il-2-receptor-alpha-il2ra-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/125983>