

Monoclonal Antibody to CD25 / IL2RA - PE

Alternate names:	IL-2 receptor alpha subunit, IL-2-RA, IL2-RA, Interleukin-2 receptor alpha chain, TAC antigen, p55
Catalog No.:	AM01310RP-N
Quantity:	100 Tests
Concentration:	0.1 mg/ml
Background:	The Interleukin 2 Receptor alpha and beta chains, together with the common gamma chain, constitute the high affinity IL2 receptor present on activated T and B cells, thymocyte subset, pre B cells and T regulatory cells. Homodimeric alpha chains result in low affinity receptor, while homodimeric beta chains produce a medium affinity receptor. Normally an integral membrane protein, soluble IL2 Receptor alpha has been isolated and determined to result from extracellular proteolysis. Alternately spliced IL2 Receptor alpha mRNAs have been isolated, but the significance of each is presently unknown.
Uniprot ID:	P12342
NCBI:	NP_776783.1
GeneID:	281861
Host / Isotype:	Mouse / IgG1
Clone:	IL-A111
Format:	State: Lyophilised purified IgG Purification: Affinity chromatography on Protein G Buffer System: Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide, 1% Bovine Serum Albumin Label: PE – R. Phycoerythrin (RPE) Reconstitution: Reconstitute with 1 ml distilled water
Applications:	Flow Cytometry: 1/10. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the CD25 cell surface antigen, a 55kDa glycoprotein also known as Interleukin-2 receptor alpha chain. Bovine CD25 is expressed by activated T cells. Species: Bovine, Sheep. Other species not tested.
Storage:	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

Caution: (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

- General Readings:**
1. Naessens J, Sileghem M, MacHugh N, Park YH, Davis WC, Toye P. Selection of BoCD25 monoclonal antibodies by screening mouse L cells transfected with the bovine p55-interleukin-2 (IL-2) receptor gene. *Immunology*. 1992 Jun;76(2):305-9. PubMed PMID: 1634253.
 2. Howard CJ, Naessens J. Summary of workshop findings for cattle (tables 1 and 2). *Vet Immunol Immunopathol*. 1993 Nov;39(1-3):25-47. PubMed PMID: 8310650.
 3. Howard CJ, Sopp P, Brownlie J, Kwong LS, Parsons KR, Taylor G. Identification of two distinct populations of dendritic cells in afferent lymph that vary in their ability to stimulate T cells. *J Immunol*. 1997 Dec 1;159(11):5372-82. PubMed PMID: 9548477.
 4. Naessens J, Olubayo RO, Davis WC, Hopkins J. Cross-reactivity of workshop antibodies with cells from domestic and wild ruminants. *Vet Immunol Immunopathol*. 1993 Nov;39(1-3):283-90. PubMed PMID: 8310653.
 5. Evans CW, Lund BT, McConnell I, Bujdoso R. Antigen recognition and activation of ovine gamma delta T cells. *Immunology*. 1994 Jun;82(2):229-37. PubMed PMID: 7927494.
 6. Campbell, J.D.M. et al. (1998) A novel cell surface proliferation- associated marker expressed on T cells and upregulated on germinal center B cells. *J. Leukoc. Biol.* 63: 567 - 574.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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