

Monoclonal Antibody to CD25 / IL2RA - FITC

Alternate names:	IL-2 receptor alpha subunit, IL-2-RA, IL2-RA, Interleukin-2 receptor alpha chain, TAC antigen, p55
Catalog No.:	AM01310FC-N
Quantity:	0.1 mg
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: Liquid purified IgG Purification: Affinity chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow cytometry (Neat - 1/5): use 10 µl of the suggested working dilution to label 1x10 ⁶ cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the bovine CD25 cell surface antigen, a 55 kDa glycoprotein also known as Interleukin-2 receptor alpha chain, which is expressed by activated T cells. Cross reacts with sheep. Other species not tested.
Add. Information:	Clone IL-A111 is reported to block the IL-2 driven proliferation of Con A-induced blast cells/ bovine lymphocytes. Removal of sodium azide is recommended prior to use in functional assays.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

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.

Antibody Hotline - Technical Questions - Antibody Location Service
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- 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 JD, Hopkins J, Howie SE, Oliver RA, Nichani AK, Goel P, et al. A novel cell surface proliferation-associated marker expressed on T cells and up-regulated on germinal center B cells. *J Leukoc Biol*. 1998 May;63(5):567-74. PubMed PMID: 9581800.

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