



Anti-IL2RA monoclonal antibody, clone 9.14 [FITC] (CABT-48047MS)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Mouse anti sheep CD25, clone 9.14, is specific for the ovine homologue of human CD25, also known as Interleukin-2 receptor alpha chain (IL-2R α), a single pass type I membrane protein expressed by activated ovine T-cells. Ovine Interleukin-2 is a cytokine involved in the proliferation, growth and differentiation of T-cells, B-cells and NK cells and its receptor is composed of 3 subunits, an α chain (CD25), a β chain (CD122) and a γ chain (CD132). A non-covalent association of the α and β subunits is required to form the high affinity receptor for IL-2. Immunoprecipitation studies have demonstrated that clone 9.14 precipitates a band of approximately 47kDa under reducing conditions, which is that expected of the mature protein due to high glycosylation, and is consistent with the observed molecular weight of IL-2R α in other species such as humans. Research has demonstrated that antibodies to CD4, FoxP3 and CD25 may be used in studies of T regulatory cells (Tregs), a unique subset of T helper cells that function in the control of effector cells vital in preventing autoimmunity. Flow Cytometry Use 10ul of the suggested working dilution to label 1 x 10⁶ cells in 100ul.

Specificity	CD25
Immunogen	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Sheep
Clone	9.14
Conjugate	FITC
Applications	FC

Format	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Size	100 µg
Preservative	See individual product datasheet
Storage	in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	IL2RA interleukin 2 receptor, alpha [Ovis aries (sheep)]
Official Symbol	IL2RA
Synonyms	IL2RA; interleukin-2 receptor subunit alpha; IL2-RA; IL-2-RA; IL-2R subunit alpha; IL-2 Receptor alpha chain; IL-2 receptor subunit alpha; interleukin 2 receptor, alpha; CD25;
Entrez Gene ID	443435
Protein Refseq	NP_001009415.1
UniProt ID	P26898
Chromosome Location	13
Pathway	Cytokine-cytokine receptor interaction; Endocytosis; HTLV-I infection; Hematopoietic cell lineage; Jak-STAT signaling pathway;