

ARG42438 anti-IL2 Receptor beta antibody [TU27]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [TU27] recognizes IL2 Receptor beta
Tested Reactivity	Hu
Tested Application	FACS, IP
Specificity	The mouse monoclonal antibody TU27 recognizes an extracellular epitope of CD122 (IL-2R beta), a 70-75 kDa type I transmembrane glycoprotein constitutively expressed by NK cells and a T cell subset, and upregulated upon activation.
Host	Mouse
Clonality	Monoclonal
Clone	TU27
Isotype	IgG1, kappa
Target Name	IL2 Receptor beta
Species	Human
Immunogen	TL-Mor cell line.
Conjugation	Un-conjugated
Alternate Names	P70-75; IL-2RB; IL-2 receptor subunit beta; p75; Interleukin-2 receptor subunit beta; CD122; CD antigen CD122; High affinity IL-2 receptor subunit beta; IL-2R subunit beta; p70-75; IL15RB

Application Instructions

Application table	Application	Dilution
	FACS	1 - 4 µg/ml
	IP	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

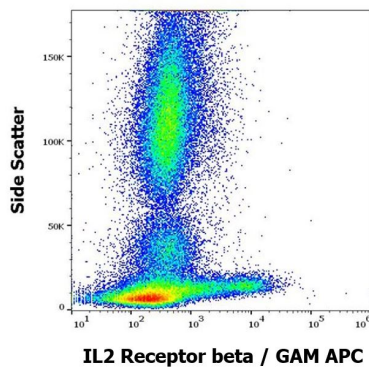
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

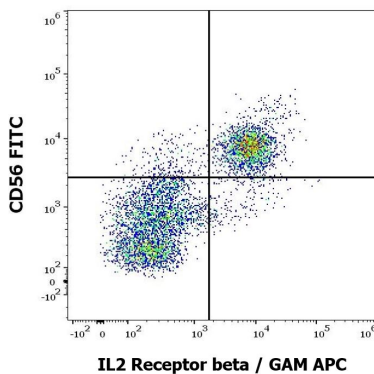
Gene Symbol	IL2RB
Gene Full Name	interleukin 2 receptor, beta
Background	<p>The interleukin 2 receptor, which is involved in T cell-mediated immune responses, is present in 3 forms with respect to ability to bind interleukin 2. The low affinity form is a monomer of the alpha subunit and is not involved in signal transduction. The intermediate affinity form consists of an alpha/beta subunit heterodimer, while the high affinity form consists of an alpha/beta/gamma subunit heterotrimer. Both the intermediate and high affinity forms of the receptor are involved in receptor-mediated endocytosis and transduction of mitogenic signals from interleukin 2. The protein encoded by this gene represents the beta subunit and is a type I membrane protein. The use of alternative promoters results in multiple transcript variants encoding the same protein. The protein is primarily expressed in the hematopoietic system. The use by some variants of an alternate promoter in an upstream long terminal repeat (LTR) results in placenta-specific expression. [provided by RefSeq, Sep 2016]</p>
Function	<p>Receptor for interleukin-2. This beta subunit is involved in receptor mediated endocytosis and transduces the mitogenic signals of IL2. Probably in association with IL15RA, involved in the stimulation of neutrophil phagocytosis by IL15 (PubMed:15123770). [UniProt]</p>
Calculated Mw	61 kDa
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

Images



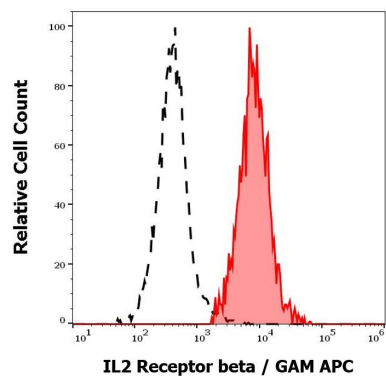
ARG42438 anti-IL2 Receptor beta antibody [TU27] FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG42438 anti-IL2 Receptor beta antibody [TU27] at 4 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG42438 anti-IL2 Receptor beta antibody [TU27] FACS image

Flow Cytometry: Human CD3 negative lymphocytes stained with ARG42438 anti-IL2 Receptor beta antibody [TU27] at 4 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody. Samples were co-stained with anti-CD56 antibody [LT56] (FITC) at 10 µl / 100 µl of peripheral whole blood.



ARG42438 anti-IL2 Receptor beta antibody [TU27] FACS image

Flow Cytometry: Separation of Human CD122 positive CD56 positive CD3 negative lymphocytes (red-filled) from neutrophil granulocytes (black-dashed). Human peripheral whole blood stained with ARG42438 anti-IL2 Receptor beta antibody [TU27] at 4 $\mu\text{g}/\text{ml}$ dilution, followed by APC-conjugated Goat anti-Mouse antibody.