abcam

ab233792

Anti-IL2 Receptor beta/p75 antibody [1G11C6]

Mouse Monoclonal IL2 Receptor beta/p75 antibody. Suitable for Flow Cyt, WB and reacts with Human samples. Cited in 1 publication. Immunogen corresponding to Recombinant Fragment Protein within Human IL2RB aa 1-250.

Image updates are in progress. Products remain available and covered by the Abcam Product Promise. Learn more.

Key facts

Isotype	IgG2b
Host species	Mouse
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human IL2RB aa 1-250. The exact immunogen used to generate this antibody is proprietary information. Database link P14784
Clone number	1G11C6
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from tissue culture supernatant.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/200 - 1/400
Notes	-

Predicted

Species	Chimpanzee, Cynomolgus monkey
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/500 - 1/2000
Notes	-

Predicted

Species	Chimpanzee, Cynomolgus monkey
Dilution info	-
Notes	-

Target data

See full target information IL2RB

Function	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, PubMed:31040185).

Storage

Shipped at conditions	Blue Ice

Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The IL2 Receptor beta also known as IL-2R beta IL2R beta or CD122/IL2RB protein is a component of the interleukin-2 receptor complex. It is part of the receptor system for the cytokine IL-2. This receptor subunit has a molecular mass of approximately 75 kDa and gets alternatively referred to as IL2R beta or p75. It is expressed on the surface of activated T cells natural killer (NK) cells and in some cases myeloid lineage cells. This expression pattern correlates IL2R beta's role in essential immune functions and signaling processes.
Biological function summary	IL2R beta plays a critical role in cytokine binding and signal transduction for the interleukin-2 receptor which is a heterodimeric complex. This complex consists of the IL-2 receptor alpha (CD25) IL-2 receptor beta and a common gamma chain (γc CD132). The presence of IL-2R beta allows the receptor to mediate biological processes like cell proliferation differentiation and survival particularly within the immune system. The extent to how IL2R beta integrates into these processes makes it an important player in immune regulation and homeostasis.
Pathways	IL2R beta serves essential functions in the JAK-STAT and PI3K-AKT pathways. The binding of IL-2 to its receptor initiates a cascade of intracellular events which involve Janus kinases (JAKs) and signal transducer and activator of transcription (STATs) leading to transcriptional activation of various genes. Along with these pathways IL2R beta also interacts collaboratively with the gamma chain (γc) in promoting Downstream signaling events which enhance cell proliferation and survival.
Associated diseases and disorders	IL2R beta's function has implications in autoimmune diseases and certain types of leukemia. Alterations or dysregulation in IL-2R signaling pathways often play a role in autoimmune conditions due to its importance in maintaining immune tolerance. Moreover given IL-2 receptor's role in T-cell and NK-cell activity aberrations may contribute to uncontrolled cellular proliferation seen in leukemia. Understanding its interplay with the common gamma chain (CD132) can provide insights into therapeutic interventions targeting these disorders.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

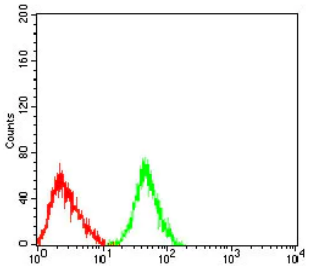
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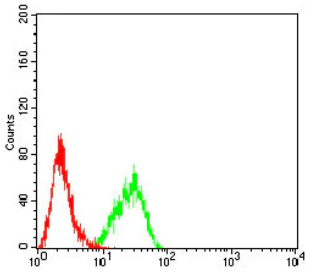
2 product images



Flow Cytometry - Anti-IL2 Receptor beta/p75 antibody [1G11C6] (ab233792)

IL2 Receptor beta/p75 Flow Cytometry staining using mouse Anti-IL2 Receptor beta/p75 antibody

Flow cytometric analysis of Jurkat (human T cell leukemia cell line from peripheral blood) cells labeling IL2 Receptor beta/p75 with ab233792 at 1/200 dilution (green) compared with a negative control (red).



Flow Cytometry - Anti-IL2 Receptor beta/p75 antibody [1G11C6] (ab233792)

IL2 Receptor beta/p75 Flow Cytometry staining using mouse Anti-IL2 Receptor beta/p75 antibody

Flow cytometric analysis of HL-60 (human promyelocytic leukemia cell line) cells labeling IL2 Receptor beta/p75 with ab233792 at 1/200 dilution (green) compared with a negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.