abcam

ab227101

Anti-IL-2 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 20% Glycerol (glycerin, glycerine), 1.21% Tris, 0.75% Glycine
Form	Liquid
Clonality	Polyclonal
Immunogen	Recombinant Fragment Protein within Human IL2. The exact immunogen used to generate this antibody is proprietary information. Database link P60568
Purification technique	Affinity purification Immunogen
Concentration	0.82 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Rhesus monkey

Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/500 - 1/3000
Notes	-

Predicted

Species	Rhesus monkey
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/1000
Notes	-

Predicted

Species	Rhesus monkey
Dilution info	-
Notes	-

Target data

See full target information IL2

Function	Cytokine produced by activated CD4-positive helper T-cells and to a lesser extend activated CD8-positive T-cells and natural killer (NK) cells that plays pivotal roles in the immune response and tolerance (PubMed:6438535). Binds to a receptor

complex composed of either the high-affinity trimeric IL-2R (IL2RA/CD25, IL2RB/CD122 and IL2RG/CD132) or the low-affinity dimeric IL-2R (IL2RB and IL2RG) (PubMed:16293754, PubMed:16477002). Interaction with the receptor leads to oligomerization and conformation changes in the IL-2R subunits resulting in downstream signaling starting with phosphorylation of JAK1 and JAK3 (PubMed:7973659). In turn, JAK1 and JAK3 phosphorylate the receptor to form a docking site leading to the phosphorylation of several substrates including STAT5 (PubMed:8580378). This process leads to activation of several pathways including STAT, phosphoinositide-3-kinase/PI3K and mitogen-activated protein kinase/MAPK pathways (PubMed:25142963). Functions as a T-cell growth factor and can increase NK-cell cytolytic activity as well (PubMed:6608729). Promotes strong proliferation of activated B-cells and subsequently immunoglobulin production (PubMed:6438535). Plays a pivotal role in regulating the adaptive immune system by controlling the survival and proliferation of regulatory T-cells, which are required for the maintenance of immune tolerance. Moreover, participates in the differentiation and homeostasis of effector T-cell subsets, including Th1, Th2, Th17 as well as memory CD8-positive T-cells.

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

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.

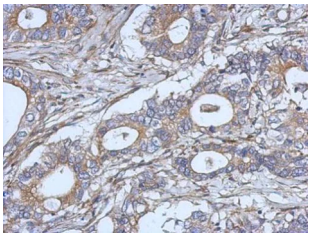
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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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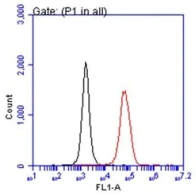
2 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-2 antibody (ab227101)

IL-2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IL-2 antibody

Paraffin-embedded human gastric cancer tissue stained for IL2 using ab227101 at 1/500 dilution in immunohistochemical analysis.



Flow Cytometry - Anti-IL-2 antibody (ab227101)

IL-2 Flow Cytometry staining of THP-1 cells using rabbit Anti-IL-2 antibody

Flow cytometric analysis of THP-1 cells labelling IL2 with ab227101 at 1/50 dilution compared with an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Acquisition of 20,000 events were collected for FACS analysis.

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