

CD25 Rabbit pAb

Catalog No.: A2984 **2 Publications**

Basic Information

Observed MW

60 kDa

Calculated MW

31 kDa

Category

Primary antibody

Applications

WB,IF-P,IHC-P,FC,ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determined to result from extracellular proteolysis. Alternately-spliced IL2RA mRNAs have been isolated, but the significance of each is presently unknown. Mutations in this gene are associated with interleukin 2 receptor alpha deficiency. Patients with severe Coronavirus Disease 2019 (COVID-19), the disease caused by the novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), have significantly elevated levels of IL2R in their plasma. Similarly, serum IL-2R levels are found to be elevated in patients with different types of carcinomas. Certain IL2RA and IL2RB gene polymorphisms have been associated with lung cancer risk.

Recommended Dilutions

WB	1:500 - 1:5000
IF-P	1:50 - 1:200
IHC-P	1:50 - 1:200
FC	1:50 - 1:200
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID

3559

Swiss Prot

P01589

Immunogen

This information is considered to be commercially sensitive.

Synonyms

p55; CD25; IL2R; IMD41; TCGFR; IDDM10

Product Information

Source

Rabbit

Isotype

IgG

Purification

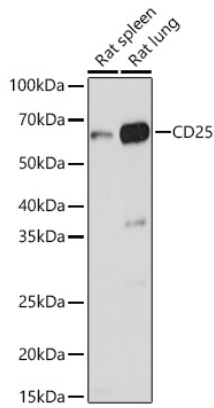
Affinity purification

Storage

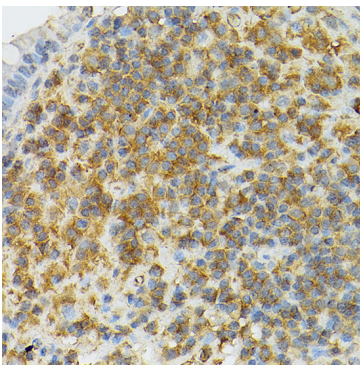
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis),pH7.3.

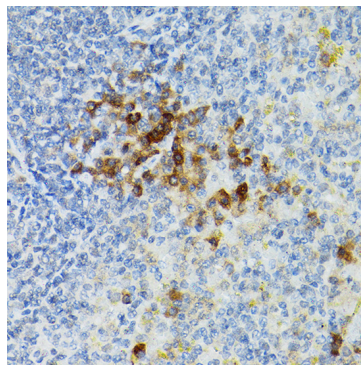
Validation Data



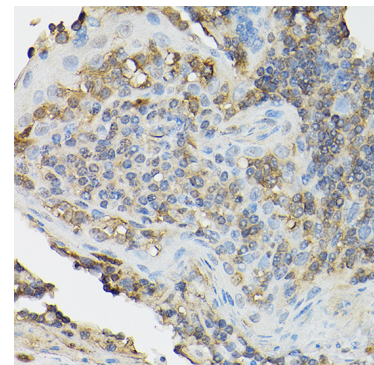
Western blot analysis of various lysates using CD25 Rabbit pAb (A2984) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.



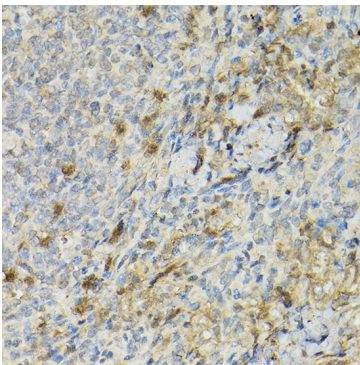
Immunohistochemistry analysis of paraffin-embedded Human gastric cancer tissue using CD25 Rabbit pAb (A2984) at a dilution of 1:25 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



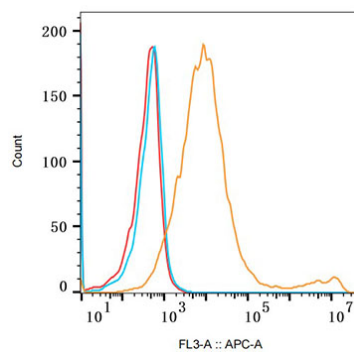
Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using CD25 Rabbit pAb (A2984) at a dilution of 1:25 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



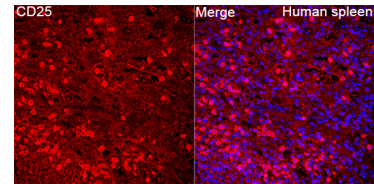
Immunohistochemistry analysis of paraffin-embedded Human tonsil using CD25 Rabbit pAb (A2984) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen using CD25 Rabbit pAb (A2984) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Flow cytometry: 293F Transfection cells(+) and 293F cells(-) were stained with Rabbit IgG isotype control (AC042, 10 µg/mL, blue line) or CD25 Rabbit pAb (A2984, 2.5µg/mL orange line), followed by Goat anti-Rabbit pAb Alexa Fluor 647 (AS086, 1:600 dilution) staining. Non-fluorescently stained Daudi cells was used as blank control (red line).



Immunofluorescence analysis of paraffin-embedded Human spleen tissue using CD25 Rabbit pAb (A2984) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.