A2984

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CD25 Rabbit pAb

Catalog No.: A2984 **1 Publications**

Basic Information

Observed MW
60kDa

Calculated MW
31kDa

Category
Mouse Monoclonal Antibody

Applications
WB,IHC-P,IF/ICC,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 proteolyisis. 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 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
FC	1:50 - 1:200

Immunogen Information

Gene ID
3559

Swiss Prot
P01589

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 101-200 of human CD25 (NP_000408.1).

Synonyms
p55; CD25; IL2R; IMD41; TCGFR; IDDM10

Contact

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Product Information

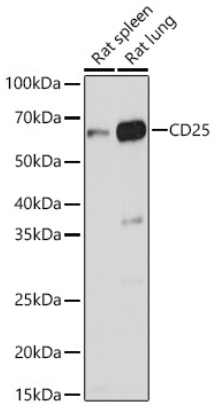
Source
Rabbit

Isotype
IgG

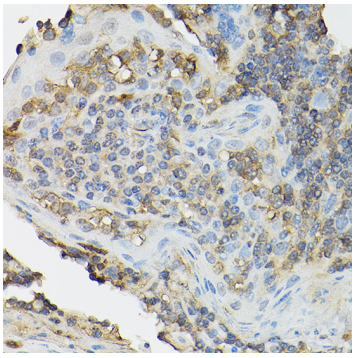
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

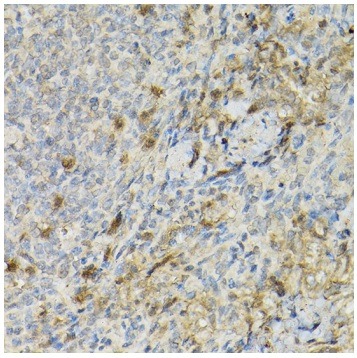
Validation Data



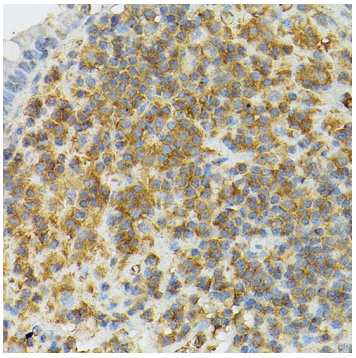
Western blot analysis of various lysates using CD25 Rabbit pAb (A2984) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.



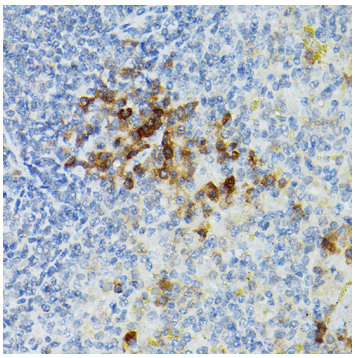
Immunohistochemistry analysis of CD25 in paraffin-embedded human tonsil using CD25 Rabbit pAb (A2984) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



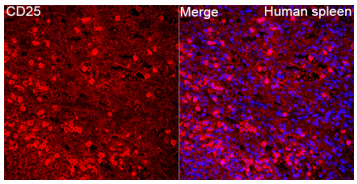
Immunohistochemistry analysis of CD25 in paraffin-embedded rat spleen using CD25 Rabbit pAb (A2984) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



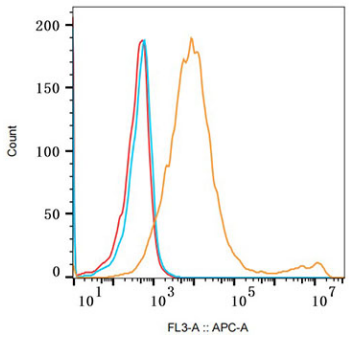
Immunohistochemistry analysis of CD25 in paraffin-embedded human gastric cancer tissue using CD25 Rabbit pAb (A2984) at a dilution of 1:25 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of CD25 in 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.



Immunofluorescence analysis of paraffin-embedded Human spleen tissue using CD25 Rabbit pAb (A2984) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3 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.



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).