Anti-CD25 Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P105649

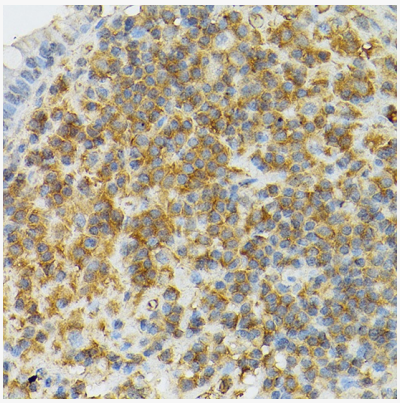
Product Information

Application	WB, IHC-P/IF (Tissue-P), FC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:5000; IF 1:50~1:200; IHC-P 1:50~1:200; FC 1:50~1:200
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 101-200 of human CD25 (NP_000408.1).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-CD25 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

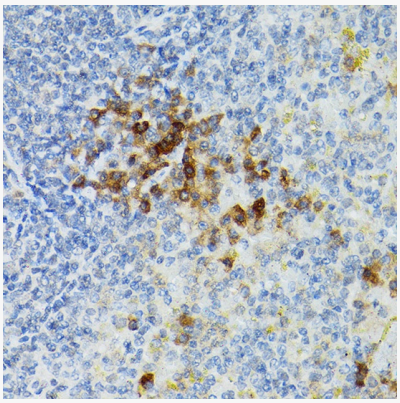
Protein Information

Synonyms	p55; CD25; IL2R; IMD41; TCGFR; IDDM10.
Calculated MW	Calculated MW: 31 kDa; Observed MW: 60 kDa
Uniprot ID	P01589
Gene ID	3559
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.

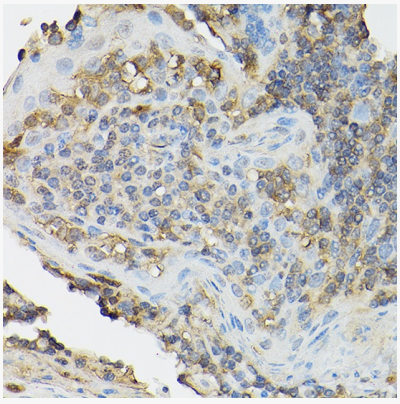
Validation Images



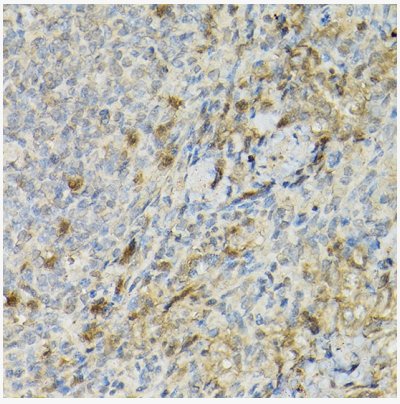
Immunohistochemistry analysis of paraffin-embedded Human gastric cancer tissue using CD25 Rabbit pAb (P105649) at a dilution of 1:25 (40× lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



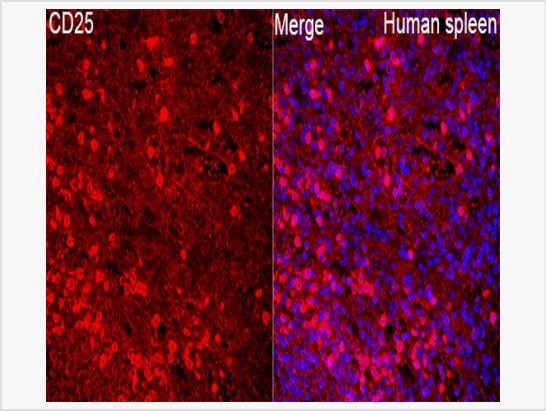
Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using CD25 Rabbit pAb (P105649) at a dilution of 1:25 (40× lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



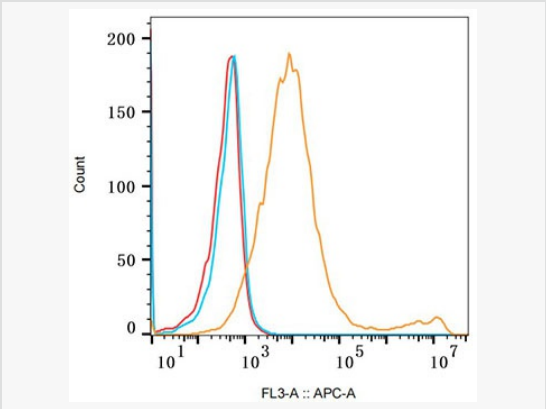
Immunohistochemistry analysis of paraffin-embedded Human tonsil using CD25 Rabbit pAb (P105649) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



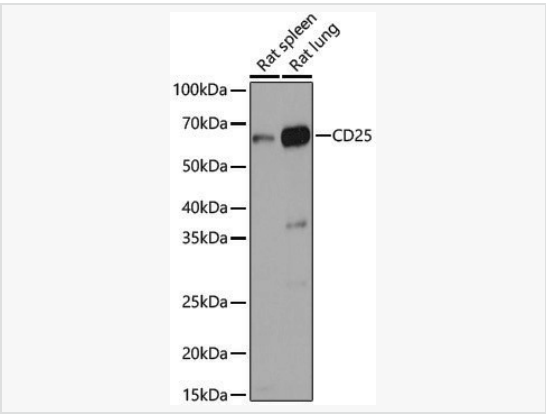
Immunohistochemistry analysis of paraffin-embedded Rat spleen using CD25 Rabbit pAb (P105649) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of paraffin-embedded Human spleen tissue using CD25 Rabbit pAb (P105649) at a dilution of 1:200 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) 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 (10 µg/mL, blue line) or CD25 Rabbit pAb (P105649, 2.5µg/mL orange line), followed by Goat anti-Rabbit pAb Alexa Fluor 647 (1:600 dilution) staining. Non-fluorescently stained Daudi cells was used as blank control (red line).



Western blot analysis of various lysates using CD25 Rabbit pAb (P105649) at 1:1,000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 3s.