

Datasheet for ABIN670371 anti-CD25 antibody (AA 201-268)



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Overview

Quantity:	100 µL
Target:	CD25 (IL2RA)
Binding Specificity:	AA 201-268
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD25 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse CD25/IL2RA
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat
Purification:	Purified by Protein A.

Target Details

Target:	CD25 (IL2RA)
Alternative Name:	IL2RA (IL2RA Products)

Target Details

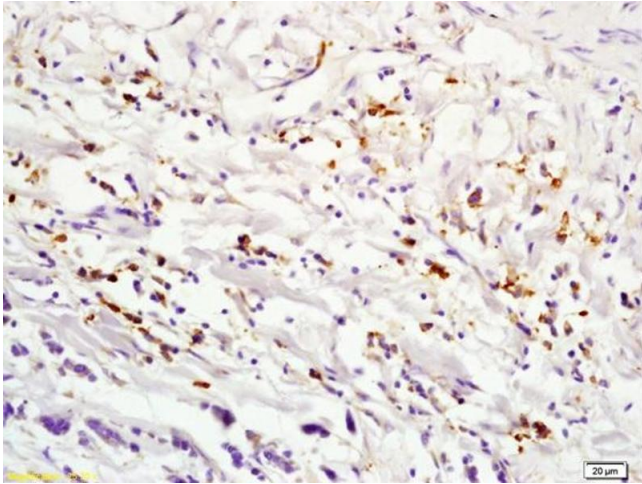
Background:	<p>Synonyms: CD25, IL2r, Ly-43, Interleukin-2 receptor subunit alpha, IL-2 receptor subunit alpha, IL-2-RA, IL-2R subunit alpha, IL2-RA, p55, IL2ra</p> <p>Background: The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute 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.[provided by RefSeq, Nov 2009].</p>
Gene ID:	16184
UniProt:	P01590
Pathways:	JAK-STAT Signaling , Growth Factor Binding , Activated T Cell Proliferation

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400
Restrictions:	For Research Use only

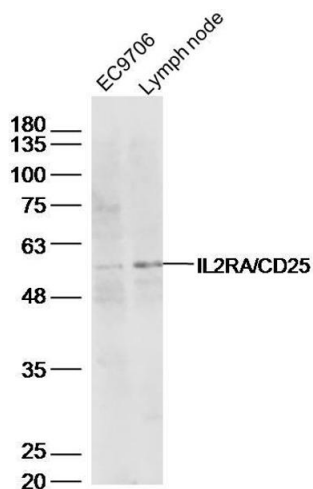
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-IL2RA Polyclonal Antibody, Unconjugated (ABIN670371) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 2. Lane 1: EC9706 lysates Lane 2: mouse lymph node lysates probed with IL2RA Polyclonal Antibody, Unconjugated at 1:500 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.



Successfully validated (Immunohistochemistry (IHC))

by [TRON](#)

Report Number: 104539

Date: Feb 28 2024

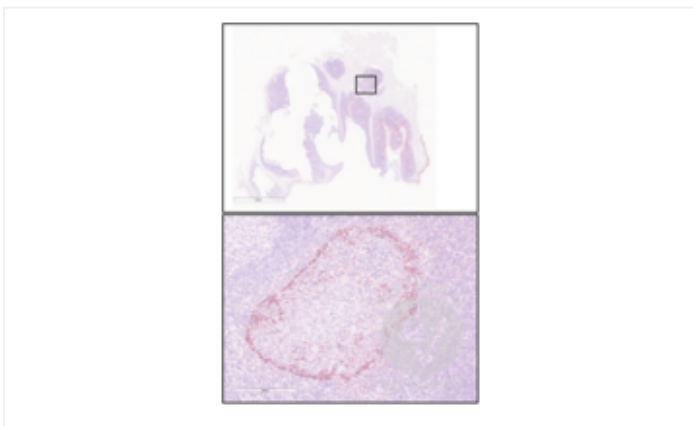
Target:	CD25
Lot Number:	AG10271265
Method validated:	Immunohistochemistry (IHC)
Positive Control:	FFPE human tonsil
Notes:	Passed. The CD25 antibody ABIN670371 recognizes CD25 in human tonsil tissue.
Primary Antibody:	ABIN670371
Secondary Antibody:	HRP-conjugated goat anti-rabbit antibody (medac diagnostics, DPVR-110HRP, Lot 101122)
Protocol:	<ul style="list-style-type: none">• Dewax and rehydrate tissue sections on glass slides in a descending xylene and graded alcohol series:<ul style="list-style-type: none">◦ xylene 2x for 5 min.◦ 100 % (v/v) ethanol 2x for 5 min.◦ 96 % (v/v) ethanol 2x for 5 min.◦ 70 % (v/v) ethanol 2x for 5 min.• Wash slides 2x 5 min with ddH₂O.• Cook slides for 30 min at 95 °C in citrate buffer pH 6.• Wash slides 2x 3 min with ddH₂O.• Incubate slides in 0.3 % (v/v) H₂O₂ in PBS for 15 min to quench endogenous peroxidase.• Wash slides 3x 3 min in 1X PBS.• Block slides in 10 % goat serum in PBS for 30 min at RT.• Incubate slides with primary rabbit anti-CD25 antibody (antibodies-online, ABIN670371, lot AG10271265) diluted 1:250 and 1:500 in 10 % goat serum in PBS ON at 4 °C in a humidified chamber.• Wash slides 3x 3 min in 1X PBS.• Incubate slides with secondary HRP-conjugated goat anti-rabbit antibody (medac diagnostics, DPVR-110HRP, Lot 101122) ready-to-use in 10 % goat serum in PBS for 30 min at RT in a humidified chamber.• Wash slides 3x 3 min in 1X PBS.• HRP development.• Counterstain slides with hematoxylin solution (Carl Roth, T865.2).• Wash slides for 15 min under running tap water.• Dehydrate sections in an ascending alcohol-xylene series:

- 70% ethanol 2x for 10 sec.
- 96% ethanol 2x for 10 sec.
- 100% ethanol 2x for 10 sec.
- xylene 2x for 10 sec.
- Mount sections with Entellan new mounting medium (Sigma-Aldrich, 1008690500).
- Dry sections.
- Image acquisition on an Aperio CS2 Digital Pathology Slide Scanner (Leica), Magnification 40x.

Experimental Notes:

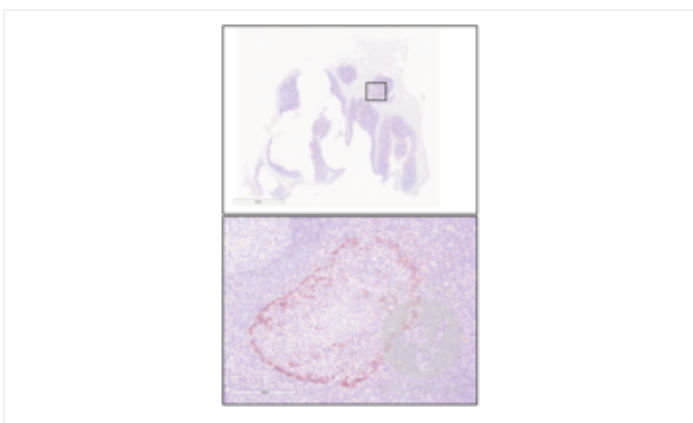
- ABIN670371 appears to successfully recognize CD25 in human tonsils, but in mouse spleen and lung, the signal is not present where expected.
- ABIN670371 does not appear to recognize CD25 in mouse samples. CD25 should be highly expressed on Tregs, which by definition express FoxP3. ABIN670371 signal does not co-localize with FoxP3 in either spleen or lung. Furthermore, in both tissues, the signal from ABIN670371 is nuclear, whereas it is expected to be membrane. ABIN670371 signal does not co-localize with CD8/CD4 in either spleen or lung although CD25 should (at least partially) co-localize with CD8 and CD4.

Images for Validation report #104539



Validation image no. 1 for anti-Interleukin 2 Receptor, alpha (IL2RA) (AA 201-268) antibody (ABIN670371)

IHC staining of human tonsil with anti-CD25 antibody ABIN670371 (1:250) and counterstain with hematoxylin.



Validation image no. 2 for anti-Interleukin 2 Receptor, alpha (IL2RA) (AA 201-268) antibody (ABIN670371)

IHC staining of human tonsil with anti-CD25 antibody ABIN670371 (1:500) and counterstain with hematoxylin.