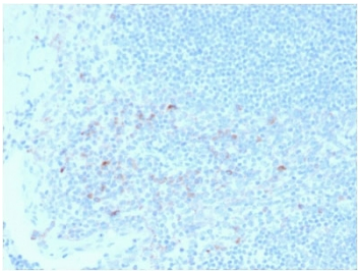
CD25 Antibody IL2RA/2395 / IL2RA Antibody [clone IL2RA/2395] (V3849)

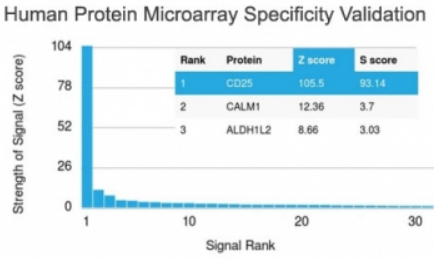
Catalog No.	Formulation	Size
V3849-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3849-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3849SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

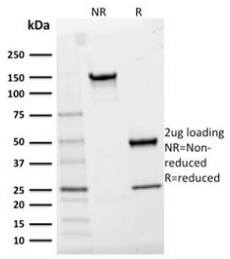
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	IL2RA/2395
Purity	Protein G affinity chromatography
UniProt	P01589
Localization	Cell surface, Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 2-4ug/ml for 30 min at RT
Limitations	This CD25 Antibody IL2RA/2395 / IL2RA Antibody is available for research use only.



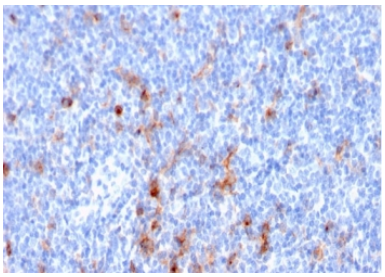
CD25 Antibody IL2RA/2395 Tonsil Immunohistochemistry. IHC testing of FFPE human tonsil tissue with CD25 antibody (clone IL2RA/2395). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



CD25 Antibody IL2RA/2395 Microarray Specificity Validation. Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD25 antibody (clone IL2RA/2395). These results demonstrate the foremost specificity of the IL2RA/2395 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CD25 antibody (clone IL2RA/2395) as confirmation of integrity and purity.



CD25 Antibody IL2RA/2395 Human Tonsil IHC. Immunohistochemistry testing of FFPE human tonsil tissue with CD25 antibody (clone IL2RA/2395). HIER: boil tissue sections in pH9 EDTA for 10-20 min followed by cooling at RT for 20 min.

Description

CD25 Antibody IL2RA/2395 recognizes CD25, the alpha subunit of the interleukin 2 receptor encoded by the IL2RA gene. CD25 is a type I transmembrane glycoprotein expressed prominently by activated T and B lymphocytes and by regulatory T cells. As part of the IL-2 receptor system, CD25 contributes to the cellular response to interleukin 2, a cytokine with important roles in lymphocyte proliferation, differentiation, survival, and immune homeostasis.

CD25 functions as the low-affinity IL-2 receptor when expressed alone. Association with IL2RB (CD122) and the common gamma chain IL2RG (CD132) produces the high-affinity IL-2 receptor complex. Although CD25 itself lacks the intracellular signaling domains responsible for IL-2 signal transduction, its ability to capture IL-2 substantially increases receptor affinity and facilitates signaling through pathways including JAK-STAT, PI3K-AKT, and MAPKs.

IL2RA expression is strongly associated with lymphocyte activation and is particularly important in regulatory T-cell biology. Regulatory T cells characteristically express high levels of CD25, supporting their ability to respond to IL-2 and maintain immune tolerance. CD25 expression is also studied in activated immune cells, inflammatory responses, hematologic malignancies, and mechanisms controlling adaptive immunity. Soluble forms of CD25 can additionally be generated and have been investigated as indicators of immune activation.

Clone IL2RA/2395 is a mouse monoclonal antibody generated against a region within amino acids 42-183 of human CD25. The antibody recognizes an epitope within the N-terminal region of CD25 and does not block IL-2 binding. It has also been evaluated on a HuProt protein microarray containing more than 19,000 full-length human proteins to assess target specificity. As an IL2RA Antibody, clone IL2RA/2395 provides a defined monoclonal reagent for investigating this important component of the IL-2 receptor system. NSJ Bioreagents supplies IL2RA/2395 for research use only.

A CD25 Antibody can be used to investigate IL2RA expression and molecular mechanisms connecting lymphocyte activation, IL-2 receptor biology, regulatory T-cell function, and immune regulation.

Explore the broader CD Antibodies page for additional antibodies targeting leukocyte differentiation markers, immune receptors, and cell surface proteins involved in innate and adaptive immune signaling pathways.

Application Notes

Optimal dilution of the CD25 Antibody IL2RA/2395 / IL2RA Antibody should be determined by the researcher.

This mAb recognizes the epitope B, which is located at residue 3-104 of CD25 and does not block IL-2 binding to CD25.

Immunogen

A portion of amino acids 42-183 was used as the immunogen for the CD25 Antibody IL2RA/2395.

Storage

Store the CD25 Antibody IL2RA/2395 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD25 antibody, IL2RA antibody, IL-2RA antibody, IL2R alpha antibody, IL-2R alpha antibody, interleukin 2 receptor alpha antibody, interleukin-2 receptor alpha antibody, interleukin 2 receptor alpha chain antibody, TAC antigen antibody, p55 antibody

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