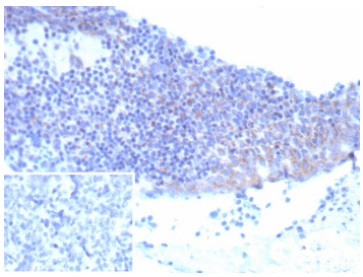
CD25 Antibody IL2RA/9378R / Recombinant IL2RA Monoclonal Antibody [clone IL2RA/9378R] (V5920)

Catalog No.	Formulation	Size
V5920-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5920-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5920SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

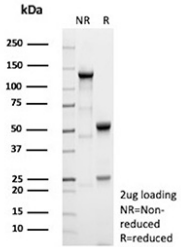
Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	IL2RA/9378R
UniProt	P01589
Localization	Cell membrane, Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This CD25 Antibody IL2RA/9378R is available for research use only.



CD25 Antibody IL2RA/9378R Tonsil Tissue IHC. Immunohistochemistry analysis of CD25 / IL2RA antibody (clone IL2RA/9378R) in human tonsil. Formalin-fixed, paraffin-embedded human tonsil tissue shows membranous and cytoplasmic brown chromogenic staining in scattered lymphoid cells, consistent with IL2RA-positive immune cell populations. Inset shows a PBS-only negative control processed without primary antibody, demonstrating minimal non-specific background staining.



SDS-PAGE Analysis of purified recombinant CD25/IL2RA antibody (clone IL2RA/9378R). Confirmation of Purity and Integrity of Antibody.

Description

CD25 Antibody IL2RA/9378R / Recombinant IL2RA Monoclonal Antibody targets Interleukin-2 receptor subunit alpha (IL2RA), a type I transmembrane cytokine receptor component that forms the high-affinity interleukin-2 receptor complex together with IL2RB and IL2RG. IL2RA, also widely known as CD25, is primarily localized to the cell membrane and plays a central role in regulating immune activation and cytokine responsiveness. Expression of CD25 is minimal on resting lymphocytes but is rapidly induced following antigen stimulation, making an IL2RA antibody a widely used tool for studying immune activation dynamics.

Interleukin-2 receptor subunit alpha belongs to the type I cytokine receptor family and lacks intrinsic kinase activity, instead functioning by increasing the affinity of the receptor complex for interleukin-2 and enabling downstream signaling through JAK-STAT pathways. CD25 is constitutively expressed at high levels on regulatory T cells, where it supports immune tolerance and suppression of excessive immune responses. Detection with a CD25 / IL2RA antibody is therefore commonly used to identify regulatory T cell populations and to investigate immune homeostasis mechanisms.

Beyond T lymphocytes, IL2RA expression has been observed in activated B cells and certain antigen-presenting cell populations, reflecting broader roles in immune regulation. Altered expression of Interleukin-2 receptor subunit alpha has been linked to autoimmune disease, inflammatory disorders, and hematologic malignancies, highlighting its relevance in immunopathology research. A CD25 antibody enables analysis of IL2RA expression patterns in immune tissues and disease-associated microenvironments.

Structurally, Interleukin-2 receptor subunit alpha is a glycoprotein with an extracellular cytokine-binding domain, a single transmembrane region, and a short cytoplasmic tail. Because IL2RA expression reflects immune activation state rather than antigen specificity, antibody-based detection of CD25 provides a direct readout of cytokine receptor engagement and immune cell activation. Clone IL2RA/9378R is designed to recognize Interleukin-2 receptor subunit alpha and supports detection of IL2RA expression in research applications. NSJ Bioreagents offers this CD25 antibody for studies of immune regulation, cytokine signaling, and T cell biology.

For a monoclonal clone with IHC and protein microarray specificity validation, see our CD25 Antibody IL2RA/2395 / IL2RA Antibody page.

Application Notes

Optimal dilution of the CD25 Antibody IL2RA/9378R should be determined by the researcher.

Immunogen

A recombinant fragment (around amino acids 1-250) of human IL2RA protein (exact sequence is proprietary) was used as the immunogen for the CD25 Antibody IL2RA/9378R.

Storage

CD25 Antibody IL2RA/9378R with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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