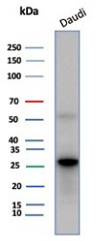
CD200R1 Antibody / CD200 receptor 1 [clone CD200R1/6493] (V5862)

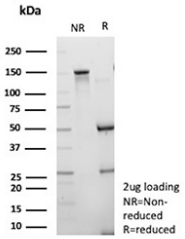
Catalog No.	Formulation	Size
V5862-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5862-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5862SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG, kappa
Clone Name	CD200R1/6493
UniProt	Q8TD46
Localization	Cell membrane
Applications	Western Blot : 2-4ug/ml
Limitations	This CD200R1/CD200 receptor 1 antibody is available for research use only.



Western blot analysis of human Daudi cell lysate using CD200R1/CD200 receptor 1 antibody (clone CD200R1/6493) shows a major band at approximately 25-30 kDa. Predicted molecular weight: 19-39 kDa but may be observed at higher molecular weights due to glycosylation.



SDS-PAGE analysis of purified, BSA-free CD200R1/CD200 receptor 1 antibody (clone CD200R1/6493) as confirmation of integrity and purity.

Description

CD200R1 antibody targets CD200 receptor 1, a type I transmembrane immunoregulatory protein primarily expressed on myeloid lineage cells, including macrophages, dendritic cells, and certain lymphoid populations. CD200 receptor 1 is a member of the immunoglobulin superfamily and functions as the principal inhibitory receptor for CD200, delivering suppressive signals that modulate immune activation and maintain tissue homeostasis. CD200R1 antibody is also referred to as CD200R antibody and OX2 receptor antibody in the literature, reflecting its established role in immune checkpoint signaling across both innate and adaptive immune systems.

CD200 receptor 1 is localized predominantly at the cell surface, where ligand engagement triggers intracellular signaling cascades that attenuate pro-inflammatory responses. Unlike many inhibitory receptors, CD200 receptor 1 lacks classical ITIM motifs and instead signals through adaptor proteins that regulate downstream pathways involved in cytokine production and cellular activation. This unique signaling architecture has made CD200R1 antibody a useful reagent for studying non-canonical inhibitory receptor biology, particularly in macrophage and microglial populations within neural and peripheral tissues.

The CD200R1 antibody clone CD200R1/6493 is designed to recognize CD200 receptor 1 in research applications where precise detection of inhibitory immune receptors is required. Expression of CD200 receptor 1 is enriched in immune-regulatory environments, including the central nervous system, lymphoid organs, and sites of chronic inflammation, where CD200-CD200R interactions contribute to immune tolerance and resolution of inflammatory responses. Dysregulation of this pathway has been implicated in autoimmune disease, neuroinflammatory conditions, and tumor-associated immune suppression.

At the cellular level, CD200 receptor 1 participates in shaping macrophage polarization and dampening excessive immune activation. Studies have shown that engagement of CD200R1 can limit production of pro-inflammatory mediators while supporting tissue-protective immune phenotypes. As a result, CD200R1 antibody is frequently incorporated into research workflows investigating immune checkpoint regulation, macrophage biology, and immune cell cross-talk within complex tissue micro-environments.

The CD200R1 antibody clone CD200R1/6493 provides a molecular tool for examining CD200 receptor 1 expression patterns without implying specific assay validation. A CD200R1 antibody is suitable for detecting CD200 receptor 1 in relevant research contexts, supporting studies of immune inhibition, inflammatory regulation, and disease-associated immune remodeling.

Application Notes

Optimal dilution of the CD200R1/CD200 receptor 1 antibody should be determined by the researcher.

Immunogen

A recombinant fragment (around amino acids 50-250) of human CD200R1 protein (exact sequence is proprietary) was used as the immunogen for the CD200R1/CD200 receptor 1 antibody.

Storage

CD200R1/CD200 receptor 1 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.