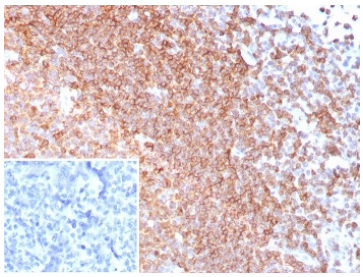
CD185 Antibody / CXCR5 / BLR1 / MDR15 [clone CXCR5/8279R] (V4214)

Catalog No.	Formulation	Size
V4214-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4214-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4214SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

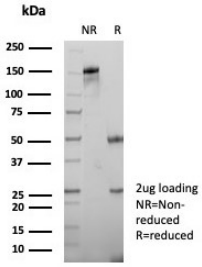
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CXCR5/8279R
Purity	Protein A/G affinity
UniProt	P32302
Localization	Cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This CD185/CXCR5 antibody is available for research use only.



Immunohistochemistry analysis of CD185 antibody in human tonsil tissue. FFPE human tonsil sections show strong membranous HRP-DAB brown staining in lymphoid cells within germinal centers, consistent with CXCR5, also known as CD185, expression in follicular B cells and T follicular helper cells. Interfollicular regions demonstrate comparatively lower staining intensity. The inset negative control, in which PBS was used in place of primary antibody, shows no specific brown chromogenic signal. Heat induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to staining.



SDS-PAGE analysis of purified, BSA-free CD185/CXCR5 antibody (clone CXCR5/8279R) as confirmation of integrity and purity.

Description

CD185 antibody, also known as CXCR5 antibody, recognizes C-X-C motif chemokine receptor 5, a seven-transmembrane G protein-coupled receptor encoded by the CXCR5 gene and commonly referred to as Burkitt lymphoma receptor 1. CD185 is primarily localized to the plasma membrane of B lymphocytes and subsets of T cells, particularly follicular helper T cells, where it regulates chemokine-directed migration. As a member of the CXC chemokine receptor family, CXCR5 binds the ligand CXCL13 and plays a central role in lymphoid follicle organization and germinal center formation.

CD185 antibody detects a multi-pass transmembrane receptor composed of seven alpha-helical membrane-spanning domains, extracellular regions responsible for ligand recognition, and intracellular domains that couple to heterotrimeric G proteins. Upon binding CXCL13, CXCR5 activates downstream signaling pathways that promote cytoskeletal rearrangement and directed chemotaxis. Through these mechanisms, CD185 directs B cells and T follicular helper cells into B cell follicles within secondary lymphoid tissues, supporting adaptive immune responses and antibody affinity maturation.

Functionally, CXCR5 is essential for humoral immunity and proper germinal center architecture. Expression of CD185 defines follicular B cells and T follicular helper cells and is widely used as a marker in immunophenotyping studies. Dysregulated CXCR5 signaling has been implicated in autoimmune disorders, chronic inflammatory diseases, and lymphoid malignancies. In certain B cell lymphomas, altered CD185 expression may influence tumor cell localization within lymphoid microenvironments.

The CXCR5 gene is located on chromosome 11 and is regulated during lymphocyte activation and differentiation. Because CD185 expression is largely restricted to defined immune cell subsets, detection of this receptor provides insight into lymphocyte trafficking, germinal center dynamics, and immune cell compartmentalization within tissues.

This recombinant monoclonal CD185 antibody (clone CXCR5/8279R) targets CXCR5 protein in research applications. CD185 antibody supports investigation of B cell biology, T follicular helper cell function, lymphoid tissue organization, and immune-mediated disease mechanisms.

Application Notes

Optimal dilution of the CD185/CXCR5 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-200) from the human protein was used as the immunogen for the CD185/CXCR5 antibody.

Storage

Aliquot the CD185/CXCR5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.