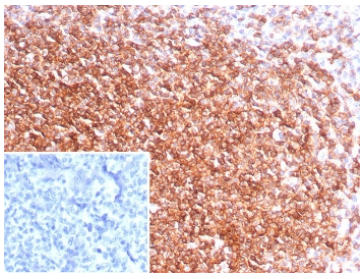
CXCR5 Antibody / CD185 / BLR1 / MDR15 [clone CXCR5/8146R] (V4213)

Catalog No.	Formulation	Size
V4213-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4213-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4213SAF-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	CXCR5/8146R
Purity	Protein A/G affinity
UniProt	P32302
Localization	Cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This CXCR5/CD185 antibody is available for research use only.



Immunohistochemistry analysis of CXCR5 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 show comparatively reduced staining. 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.

Description

CXCR5 antibody, also known as CD185 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. CXCR5 is primarily localized to the plasma membrane of B lymphocytes and subsets of T cells, particularly follicular helper T cells, where it mediates chemokine-directed cell migration. As a member of the CXC chemokine receptor family, CXCR5 binds the ligand CXCL13 and plays a central role in organization of lymphoid follicles and germinal centers.

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

Functionally, CXCR5 is critical for humoral immunity. Its expression defines follicular B cells and T follicular helper cells, which are essential for antibody affinity maturation and class switching. Dysregulated CXCR5 expression has been implicated in autoimmune diseases, chronic inflammatory conditions, and lymphoid malignancies. In certain B cell lymphomas, altered CXCR5 signaling may influence tumor cell localization and microenvironmental interactions. Because of its restricted expression pattern within lymphoid compartments, CXCR5 is widely used as a marker in immunology and hematopathology research.

The CXCR5 gene is located on chromosome 11 and is regulated during lymphocyte differentiation and activation. Detection of CXCR5 protein provides insight into lymphoid tissue architecture, B cell biology, and T follicular helper cell dynamics. As CD185, it is frequently used in flow cytometric and tissue-based analyses to characterize immune cell subsets and germinal center reactions.

This recombinant monoclonal CXCR5 antibody (clone CXCR5/8146R) targets CD185 protein in research applications. CXCR5 antibody supports investigation of lymphocyte trafficking, germinal center formation, immune regulation, and lymphoid malignancy-associated signaling pathways.

Application Notes

Optimal dilution of the CXCR5/CD185 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 CXCR5/CD185 antibody.

Storage

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