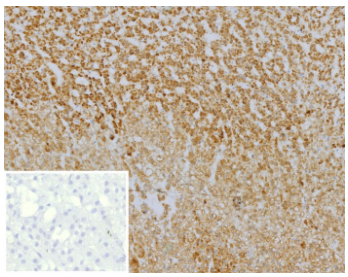
Burkitt Lymphoma Receptor 1 Antibody / CXCR5 [clone CXCR5/13100] (V5992)

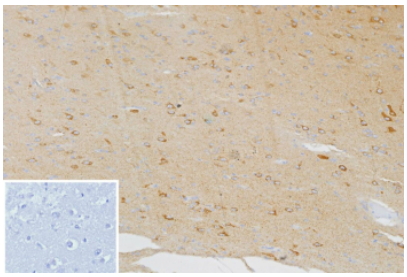
Catalog No.	Formulation	Size
V5992-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5992-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5992SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

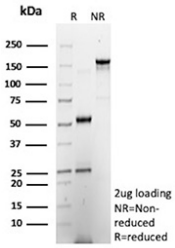
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CXCR5/13100
UniProt	P32302
Localization	Cell membrane
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Burkitt Lymphoma Receptor 1/CXCR5 antibody is available for research use only.



Immunohistochemistry analysis of Burkitt Lymphoma Receptor 1 antibody in human adrenal gland tissue. FFPE human adrenal sections show HRP-DAB brown membranous and cytoplasmic staining in scattered immune cells within the adrenal medulla, consistent with CXCR5, also known as CD185, expression in lymphoid-associated cells. Adrenocortical cells demonstrate minimal 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 in 10 mM Tris with 1 mM EDTA, pH 9.0, by heating at 95oC for 45 minutes followed by cooling at room temperature for 20 minutes.



Immunohistochemistry analysis of Burkitt Lymphoma Receptor 1 antibody in human brain tissue. FFPE human brain sections show light HRP-DAB brown staining in scattered perivascular and parenchymal cells, consistent with CXCR5, also known as CD185, expression in resident or infiltrating immune-associated cells. Neuronal and glial populations demonstrate minimal background 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 in 10 mM Tris with 1 mM EDTA, pH 9.0, by heating at 95oC for 45 minutes followed by cooling at room temperature for 20 minutes.



SDS-PAGE Analysis of Purified Burkitt Lymphoma Receptor 1/CXCR5 antibody (CXCR5/13100). Confirmation of Purity and Integrity of Antibody.

Description

Burkitt Lymphoma Receptor 1 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 CD185. Burkitt Lymphoma Receptor 1 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 cell 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.

Burkitt Lymphoma Receptor 1 antibody detects a multi-pass transmembrane receptor composed of seven alpha-helical membrane-spanning domains, extracellular regions responsible for ligand binding, 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 Burkitt Lymphoma Receptor 1 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 diseases, chronic inflammatory disorders, and lymphoid malignancies. In certain B cell lymphomas, altered CXCR5 expression may influence tumor cell localization and interaction with the lymphoid microenvironment.

The CXCR5 gene is located on chromosome 11 and is transcriptionally regulated during lymphocyte activation and differentiation. Because Burkitt Lymphoma Receptor 1 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.

The Burkitt Lymphoma Receptor 1 antibody (clone CXCR5/13100) is suitable for detecting CXCR5 protein expression in research applications. This CXCR5 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 Burkitt Lymphoma Receptor 1/CXCR5 antibody should be determined by the researcher.

Immunogen

A recombinant fragment of human CXCR5 protein (exact sequence is proprietary) was used as the immunogen for the Burkitt Lymphoma Receptor 1/CXCR5 antibody.

Storage

Burkitt Lymphoma Receptor 1/CXCR5 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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