

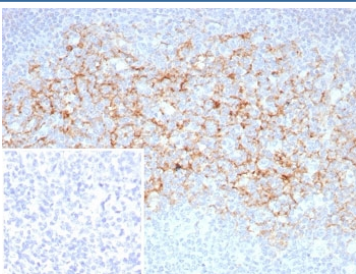
CD23 Antibody Rabbit Monoclonal [clone FCER2/8510R] (V4609)

Catalog No.	Formulation	Size
V4609-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4609-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4609SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

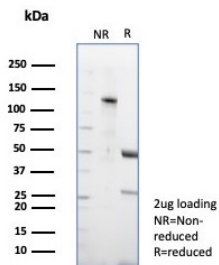
Recombinant **RABBIT MONOCLONAL**

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Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	FCER2/8510R
Purity	Protein A/G affinity
UniProt	P06734
Localization	Cell Surface
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD23 antibody is available for research use only.



Immunohistochemistry of CD23 Antibody in human tonsil. FFPE human tonsil tissue was stained with CD23 antibody rabbit monoclonal FCER2/8510R. Prominent membranous HRP-DAB brown staining is observed in B lymphocytes within germinal centers and mantle zone regions, consistent with established CD23 expression on mature follicular B cells. The staining pattern clearly outlines follicular architecture, with dense positivity in B cell rich areas and minimal staining in adjacent interfollicular T cell zones. The inset image shows the PBS negative control processed without primary antibody, demonstrating absence of specific staining. Heat induced epitope retrieval was performed by boiling tissue sections in pH 9 Tris-EDTA buffer for 20 minutes followed by cooling prior to antibody incubation.



SDS-PAGE analysis of purified, BSA-free CD23 antibody (clone FCER2/8510R) as confirmation of integrity and purity.

Description

CD23 Antibody Rabbit Monoclonal FCER2/8510R recognizes CD23, a type II transmembrane glycoprotein encoded by the FCER2 gene on chromosome 19p13.3. CD23 is also known as Low affinity immunoglobulin epsilon Fc receptor or Fc epsilon receptor II and is a member of the C-type lectin family. It functions as the low affinity receptor for IgE and plays a central role in regulating humoral immune responses, particularly in B cell mediated immunity.

CD23 is composed of a short N-terminal cytoplasmic domain, a single transmembrane region, and a large extracellular C-type lectin-like domain responsible for IgE binding. In addition to its membrane bound form, CD23 can be cleaved to generate soluble fragments that retain biologic activity and influence immune signaling. Through interactions with IgE and CD21, CD23 participates in antigen presentation, modulation of IgE synthesis, and regulation of B cell activation and differentiation. Subcellular localization is predominantly membranous, often with accompanying cytoplasmic staining depending on cellular activation state.

In normal tissues, CD23 expression is most prominent in secondary lymphoid organs including tonsil, lymph node, and spleen. Within these tissues, CD23 is characteristically expressed by mature follicular B cells in germinal centers and mantle zones. The staining pattern typically highlights follicular architecture, with strong membranous labeling in B cell rich areas and minimal expression in T cell predominant regions. Because of this distribution, CD23 antibody is widely used in research settings to study B cell subsets and germinal center biology.

Aberrant CD23 expression has been associated with allergic disorders, asthma, and certain B cell lymphoproliferative diseases such as chronic lymphocytic leukemia. Assessment of CD23 expression contributes to immunophenotypic characterization in hematologic research. CD23 Antibody rabbit monoclonal FCER2/8510R provides a specific reagent for detecting CD23 in relevant research applications focused on immunology and lymphoid tissue studies.

Application Notes

Optimal dilution of the CD23 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 221-321) from the human protein was used as the immunogen for the CD23 antibody rabbit monoclonal FCER2/8510R.

Storage

Aliquot the CD23 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

