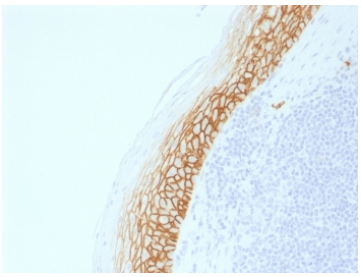
CD44v9 Antibody for IHC Lymphoid Tissue / Lymphoid Activation Marker Antibody [clone CD44v9/2344R] (V3572)

Catalog No.	Formulation	Size
V3572-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3572-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3572SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3572IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

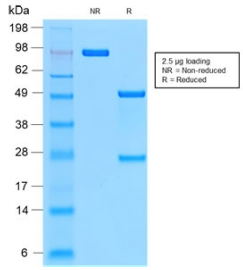
Recombinant RABBIT MONOCLONAL

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	CD44v9/2344R
Purity	Protein A affinity chromatography
UniProt	P16070
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This CD44v9 Antibody for IHC Lymphoid Tissue / Lymphoid Activation Marker Antibody is available for research use only.



CD44v9 Antibody for IHC Tonsil. Immunohistochemistry analysis of CD44 variant 9 / CD44 expression in FFPE human tonsil using recombinant CD44v9 antibody (clone CD44v9/2344R). Prominent membranous HRP-DAB brown staining is observed along the epithelial layer, with sharp contrast to the underlying lymphoid compartment, highlighting cell surface localization consistent with CD44v9-mediated adhesion at epithelial-immune interfaces. The staining pattern emphasizes boundary organization between epithelial structures and lymphoid tissue, supporting its role in lymphoid activation and tissue architecture within tonsillar immune microenvironments. Heat induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant CD44v9 antibody (clone CD44v9/2344R) as confirmation of integrity and purity.

Description

CD44 antigen (CD44) is a transmembrane glycoprotein belonging to the CD44 family of cell adhesion molecules, widely expressed at the cell surface of epithelial and hematopoietic cells and functioning in hyaluronic acid binding, cell-cell interactions, and extracellular matrix organization. CD44v9 Antibody for IHC Lymphoid Tissue is designed to detect the variant 9-containing isoform of CD44 in formalin-fixed, paraffin-embedded tissues, enabling detailed evaluation of lymphoid tissue architecture and immune cell populations by immunohistochemistry. CD44 is highly expressed in lymphoid organs such as tonsil, lymph node, and spleen, where it contributes to leukocyte activation, migration, and retention within structured immune niches, including germinal centers and lymphoid follicles that define organized immune microenvironments.

CD44 antibody, also known as CD44 antigen antibody, CD44 variant 9 antibody, CD44v9 IHC antibody, or Hermes antigen antibody, recognizes multiple splice variants generated through alternative exon usage, with CD44v9 representing a functionally distinct isoform associated with specialized roles in immune regulation. Within lymphoid tissues, CD44v9 expression is frequently observed in germinal center regions and lymphoid follicles, where activated B and T lymphocytes undergo proliferation and differentiation, making this CD44v9 Antibody for IHC Lymphoid Tissue particularly useful for evaluating immune activation patterns and tissue architecture in formalin-fixed specimens. Its localization at the cell membrane supports adhesion to extracellular matrix components such as hyaluronan, facilitating immune cell trafficking and positioning within interfollicular zones and mantle regions of lymphoid tissue.

Functionally, CD44v9 contributes to immune activation by stabilizing cell surface interactions and promoting signal transduction events that support lymphocyte proliferation and differentiation. It plays a role in maintaining the structural integrity of lymphoid microenvironments, allowing effective antigen presentation and clonal expansion. In immunohistochemistry applications, CD44v9 staining highlights membranous patterns in lymphoid cells, providing a useful marker for assessing immune cell distribution, compartmentalization, and activation status within normal and reactive tissues. This CD44v9 Antibody for IHC Lymphoid Tissue is particularly suited for studying lymphoid tissue organization, immune cell localization, and activation states in both resting and stimulated immune environments.

In addition to its role in normal immune physiology, CD44v9 expression has been observed in tumor-infiltrating lymphocytes across multiple cancer types, linking its lymphoid expression profile to the broader tumor immune microenvironment. Its presence in these cells supports evaluation of immune infiltration patterns and may provide insight into host immune responses within tumor tissues. The ability to detect CD44v9 in both normal lymphoid organs and immune cell populations within tumors enhances its relevance for tissue-based studies examining immune contexture and

lymphocyte involvement in disease processes.

Structurally, CD44 is encoded by a gene located on chromosome 11p13 and consists of an extracellular domain responsible for ligand binding, a transmembrane region, and a cytoplasmic tail that interacts with cytoskeletal and signaling proteins. The variant 9 region arises from alternative splicing within the extracellular domain, conferring isoform-specific functional properties. CD44 family proteins are widely expressed but show regulated isoform distribution depending on cell type and activation state, with CD44v9 being particularly associated with activated and specialized immune cell populations. An antibody targeting CD44v9 is suitable for detecting CD44 variant expression in lymphoid tissues and related research applications involving immune activation and tissue architecture.

For additional CD44 research, explore our HCAM Antibody 156-3C11, a well-established monoclonal antibody with over 200 publications supporting its use in studies of cell adhesion, migration, and cancer biology.

Application Notes

Titering of the CD44v9 Antibody for IHC Lymphoid Tissue / Lymphoid Activation Marker Antibody may be required for optimal performance.

Immunogen

An amino acid sequence from the variant 9 domain of CD44 was used as the immunogen for the recombinant CD44v9 antibody.

Storage

Store the CD44v9 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD44 variant 9 antibody, CD44v antibody, CD44 isoform variant antibody, Hermes antigen antibody

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