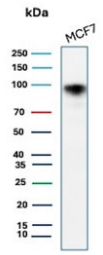
CD44 Antibody for WB Glycosylation / Molecular Weight Shift Antibody [clone HCAM/2875R] (V7500)

Catalog No.	Formulation	Size
V7500-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7500-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7500SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7500IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

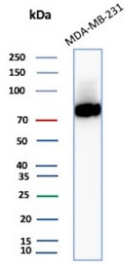
Recombinant RABBIT MONOCLONAL

Bulk quote request

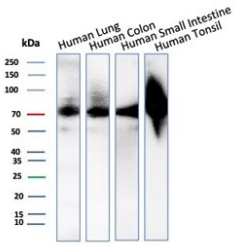
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	HCAM/2875R
Purity	Protein A affinity chromatography
UniProt	P16070
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
Limitations	This CD44 Antibody for WB Glycosylation / Molecular Weight Shift Antibody is available for research use only.



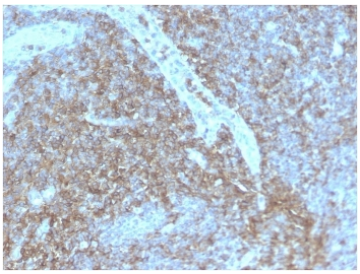
CD44 Antibody Human MCF7 Cell Line WB. Western blot analysis of CD44 / CD44 antigen expression in human MCF7 cell lysate using recombinant rabbit monoclonal antibody clone HCAM/2875R. A band is detected at approximately 80-95 kDa, consistent with the predicted molecular weight of CD44. CD44 is heavily glycosylated, and the observed band reflects glycosylation-dependent migration of the extracellular domain.



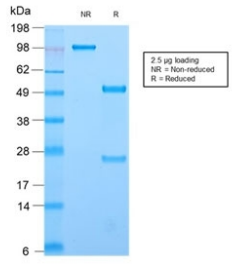
CD44 Antibody Human Breast Cancer Cell WB. Western blot analysis of CD44 / CD44 antigen expression in human MDA-MB-231 cell lysate using recombinant rabbit monoclonal antibody clone HCAM/2875R. A strong band is detected at approximately 75-90 kDa, with band intensity reflecting high CD44 expression in this cell line and migration influenced by glycosylation state.



CD44 Antibody Human Tissue Glycoprotein WB. Western blot analysis of CD44 / CD44 antigen expression in human lung, colon, small intestine, and tonsil lysates using recombinant rabbit monoclonal antibody clone HCAM/2875R. Bands are observed across a range of approximately 75-110 kDa, consistent with glycosylation-dependent variation in CD44 molecular weight across different tissue types.



CD44 Antibody Human Lymph Node Tissue IHC. Immunohistochemistry staining of FFPE human lymph node with recombinant CD44 antibody (clone HCAM/2875R). HIER: boil 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 CD44 antibody (clone HCAM/2875R) as confirmation of integrity and purity.

Description

CD44 antigen (CD44), also known as homing cell adhesion molecule (HCAM), is a heavily glycosylated transmembrane protein that functions as a receptor for hyaluronic acid and mediates cell adhesion, migration, and extracellular matrix interactions. It is expressed on epithelial and immune cells, where it contributes to cell surface communication and tissue organization. CD44 Antibody for WB Glycosylation / Molecular Weight Shift Antibody is designed to detect CD44 expression in western blot applications, with particular emphasis on analyzing glycosylation-dependent variation in molecular weight and band pattern behavior across samples.

CD44 antibody, also referred to as HCAM antibody or Hermes antigen antibody, recognizes a protein whose extracellular

domain undergoes extensive N-linked and O-linked glycosylation. In western blot analysis, this results in bands that often migrate above the predicted core protein size, with additional variation in band shape and intensity depending on tissue source and biological context. Recombinant rabbit monoclonal antibody clone HCAM/2875R is well suited for visualizing these migration differences, allowing researchers to interpret glycosylation-associated band shifts and sample-dependent variation in CD44 electrophoretic behavior.

Functionally, CD44 mediates interactions with hyaluronic acid and other extracellular matrix components, and glycosylation of its extracellular domain can influence ligand binding, receptor conformation, and migration on SDS-PAGE. In western blot applications, CD44 frequently appears as a broadened or shifted band rather than a single discrete species, reflecting its post-translational modification state. This CD44 Antibody for WB Glycosylation is particularly suited for examining molecular weight variation, band dispersion, and differences in glycosylation across human tissues and cell lines.

CD44 expression is observed across multiple human tissue types, and the tested samples for this clone demonstrate the variable band profiles expected for a glycosylated cell surface protein. Differences in apparent molecular weight and signal intensity may reflect both expression level and modification state, supporting comparative analysis of protein processing across biological samples. Detection of these patterns enables deeper interpretation of CD44 structure and regulation in western blot experiments.

Structurally, CD44 consists of an extracellular ligand-binding domain, a transmembrane segment, and a cytoplasmic tail involved in intracellular signaling and cytoskeletal interactions. Alternative splicing generates multiple isoforms, while glycosylation of the extracellular domain contributes significantly to the observed molecular weight range. An antibody targeting CD44 is suitable for detecting this glycoprotein in western blot and related protein analysis applications, with clone HCAM/2875R providing a strong option for studies focused on glycosylation-dependent band interpretation.

This CD44 antibody is part of a broader CD44 antibody panel offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the CD44 Antibody for WB Glycosylation / Molecular Weight Shift Antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Stimulated human leukocytes were used as the immunogen for the recombinant CD44 antibody.

Storage

Store the recombinant CD44 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD44 antibody, CD44 WB antibody, HCAM antibody, CD44 glycosylation antibody, Hermes antigen antibody