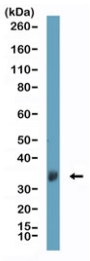
Clusterin Antibody for WB / Secreted Glycoprotein Detection [clone RM437] (R20452)

Catalog No.	Formulation	Size
R20452-0.1ML	Antibody in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ul

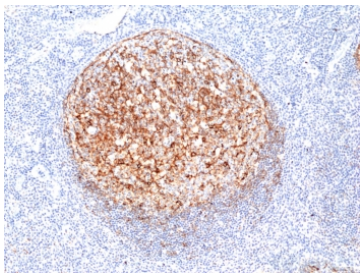
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM437
Purity	Protein A purified from animal origin-free supernatant
UniProt	P10909
Localization	Nucleus, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1:50 -1:100 Western Blot : 1:500-1:1000
Limitations	This Clusterin Antibody for WB / Secreted Glycoprotein Detection is available for research use only.



Clusterin Antibody Brain WB. Western blot analysis of human brain tissue lysate using Clusterin antibody for WB. The recombinant rabbit monoclonal antibody clone RM437 detects a band at approximately 36-39 kDa, consistent with the predicted molecular weight of the processed alpha subunit of Clusterin / CLU. This banding pattern reflects proteolytic cleavage of the heterodimer precursor, while higher molecular weight forms may also be present depending on glycosylation and processing state. Detection in brain tissue aligns with the known expression of this secreted glycoprotein in the central nervous system.



Clusterin Antibody Human Tonsil IHC. Immunohistochemistry analysis of FFPE human tonsil tissue using Clusterin antibody for WB. The recombinant rabbit monoclonal antibody clone RM437 demonstrates strong cytoplasmic and extracellular staining within lymphoid follicles, consistent with Clusterin / CLU expression as a secreted glycoprotein. Signal is enriched in follicular regions and surrounding microenvironment, reflecting accumulation of this processed and secreted protein, while background staining remains low. HIER: boil tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling prior to staining.

Description

Clusterin (CLU) is a secreted glycoprotein that undergoes extensive post-translational modification, including glycosylation and proteolytic cleavage, resulting in multiple detectable molecular forms in western blot analysis. Clusterin Antibody for WB is widely used to study this proteinÃ¢Â€Â™s expression, processing, and secretion, where it typically appears as a heterodimeric precursor at approximately 75-80 kDa along with lower molecular weight alpha and beta subunits generated through proteolytic cleavage.

Clusterin Antibody for WB / Secreted Glycoprotein Detection, also known as CLU antibody, APO-J antibody, or Apolipoprotein J antibody in the literature, enables detection of this protein in lysate-based assays where accurate identification of multiple processed forms is essential. Due to its secreted and heavily glycosylated nature, Clusterin often exhibits variable electrophoretic mobility depending on glycosylation state, sample preparation, and tissue origin. This complexity makes western blot-validated antibodies critical for reliable interpretation of banding patterns.

Functionally, Clusterin acts as an extracellular chaperone that binds misfolded proteins and prevents aggregation, contributing to protein homeostasis in both normal and stress conditions. These functions are closely linked to its maturation and secretion, which can be directly assessed by western blot through detection of precursor and cleaved forms. The presence of multiple bands provides insight into protein processing, secretion efficiency, and cellular stress status.

Clusterin is broadly expressed across tissues and is often enriched in secretory and stress-responsive environments. In western blot experiments, stronger signal intensity may be observed in tissues with high secretory activity or elevated stress response, reflecting increased synthesis and processing of the protein. This makes Clusterin Antibody for WB particularly useful for comparative analysis of expression levels and post-translational modification states.

Subcellularly, Clusterin is synthesized in the endoplasmic reticulum, glycosylated, and cleaved into alpha and beta chains prior to secretion. These biochemical features directly influence its electrophoretic behavior, resulting in characteristic banding patterns that include both full-length and processed forms. Proper interpretation of these bands is essential for understanding Clusterin biology in experimental systems.

This Clusterin antibody is supported by western blot data demonstrating clear detection of expected molecular weight forms, along with immunohistochemistry data confirming tissue expression patterns. Together, these features support its use in studies of protein processing, secretion dynamics, and extracellular chaperone function.

This antibody is part of a broader range of Clusterin antibody products supporting research into chaperone function, stress response, and disease biology.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Clusterin Antibody for WB / Secreted Glycoprotein Detection may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A peptide corresponding to the C-terminus of Clusterin was used as the immunogen for the recombinant Clusterin antibody.

Storage

Store the Clusterin antibody at -20oC.

Alternate Names

Clusterin antibody, CLU antibody, APO-J antibody, Apolipoprotein J antibody, Clusterin WB antibody

Copyright © NSJ Bioreagents. All rights reserved.