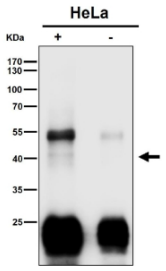
# Clu Antibody / Clusterin [clone 30C68] (FY13203)

| Catalog No. | Formulation | Size |
|---|---|---|
| FY13203 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA | 100 ul |

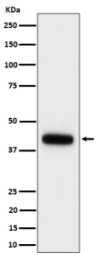
Recombinant RABBIT MONOCLONAL

**Bulk quote request**

| | |
|---|---|
| **Availability** | 2-3 weeks |
| **Species Reactivity** | Mouse, Rat |
| **Format** | Liquid |
| **Host** | Rabbit |
| **Clonality** | Recombinant Rabbit Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Name** | 30C68 |
| **Purity** | Affinity chromatography |
| **Buffer** | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. |
| **UniProt** | Q06890 |
| **Applications** | Western blot: 1:500-1:2000<br>Immunohistochemistry: 1:50-1:200<br>Immunoprecipitation: 1:50 |
| **Limitations** | This Clu antibody is available for research use only. |




Clu Antibody IP. Immunoprecipitation analysis using the Clu antibody at 1:50 dilution. Western blot at 1:500 dilution. Clusterin IP from HeLa lysate. Under reducing conditions, a faint clusterin band appears in the low-40 kDa range (alpha chain). Prominent ~50-55 kDa and ~25 kDa bands represent IgG heavy and light chains from the IP antibody.




Clu Antibody Mouse Serum WB. Western blot analysis of Clusterin expression in mouse serum cell lysate using Clu antibody. Predicted molecular weight: 75-80 kDa (heterodimer precursor), 36-39 kDa (alpha subunit).

## Description

Clu antibody detects Clusterin, encoded by the CLU gene. Clusterin is a secreted glycoprotein with diverse functions in lipid transport, apoptosis, and complement regulation. Also known as apolipoprotein J, Clusterin has been studied extensively in neurodegeneration, cancer, and reproductive biology. Clu antibody provides researchers with a versatile reagent to study cell survival, immune regulation, and disease processes.

Clusterin is expressed in many tissues and exists in secreted and nuclear forms. Research using Clu antibody has shown that secreted Clusterin acts as an extracellular chaperone, binding misfolded proteins and preventing aggregation. This function is particularly important in the brain, where Clusterin helps clear amyloid proteins associated with neurodegenerative disease. Nuclear Clusterin, in contrast, has been linked to pro-apoptotic signaling, underscoring its context-dependent roles.

In neurobiology, Clusterin is associated with Alzheimer's disease and other dementias. Studies with Clu antibody have demonstrated that increased Clusterin levels correlate with amyloid deposition and cognitive decline. Genome-wide association studies have identified CLU variants as risk factors for Alzheimer's disease, further highlighting its importance in neurodegeneration. As a result, Clusterin is being studied as both a biomarker and a therapeutic target.

Clusterin also plays important roles in cancer biology. Research using Clu antibody has revealed that secreted Clusterin can protect tumor cells from stress and apoptosis, promoting therapeutic resistance. Conversely, nuclear Clusterin may enhance apoptosis and suppress tumor growth. These opposing roles reflect the complex regulation of CLU expression and processing in cancer.

Clusterin has additional roles in reproduction, lipid transport, and complement regulation. Studies with Clu antibody have shown that it binds to sperm membranes and influences fertility, while also participating in complement inhibition during inflammation. Its broad functional repertoire makes it a protein of interest across multiple biological disciplines.

Clu antibody is widely used in western blotting, immunohistochemistry, ELISA, and immunofluorescence. Western blotting identifies multiple isoforms, immunohistochemistry reveals expression in brain and tumors, and ELISA quantifies soluble Clusterin in biological fluids. These applications make Clu antibody valuable for translational research.

By providing validated Clu antibody reagents, NSJ Bioreagents supports studies into neurodegeneration, cancer, and immune biology. Detection of Clusterin provides insight into how this multifunctional glycoprotein influences health and disease.

This Clu antibody complements a related Clusterin antibody used to study CLU, APO-J, and Apolipoprotein J biology.

## Application Notes

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

## Immunogen

A synthesized peptide derived from human Clusterin was used as the immunogen for the Clu antibody.

## Storage

Store the Clu antibody at -20oC.



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