

## Mouse anti-Human Clusterin Monoclonal Antibody | anti-CLU antibody

Anti-Clusterin Antibody, Mouse Monoclonal

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                                                   |
|-----------|-------|------------|------------------------------------------------------------------------------------------------|
| AAA255395 | Mouse | Human      | Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA, Western Blot |

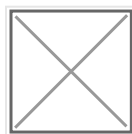
### PRODUCT SYNONYMS

Clusterin; Monoclonal Antibody; Anti-Clusterin Antibody; Mouse Monoclonal; Clusterin/Apolipoprotein J/Apo-J/CLU Antibody; Mouse MAb; clusterin; Anti-AAG4 Antibody; Anti-APO-J Antibody; Anti-APOJ Antibody; Anti-CLI Antibody; Anti-CLU1 Antibody; Anti-CLU2 Antibody; Anti-KUB1 Antibody; Anti-NA1/NA2 Antibody; Anti-SGP-2 Antibody; Anti-SGP2 Antibody; Anti-SP-40 Antibody; Anti-TRPM-2 Antibody; Anti-TRPM2 Antibody; anti-CLU antibody

### PRODUCT SPECIFICATIONS

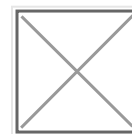
|                                               |                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Mouse                                                                                                                                                                                                                                                                                                                                              |
| Reactivity                                    | Human                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                       | Mouse IgG1                                                                                                                                                                                                                                                                                                                                         |
| Clone Number                                  | 9E2E2                                                                                                                                                                                                                                                                                                                                              |
| Specificity                                   | Human Clusterin/Apolipoprotein J/Apo-J.<br>No cross-reactivity in ELISA with Mouse CLU/Clusterin/Apolipoprotein J/Apo-J, Human cell lysate (293 cell line)                                                                                                                                                                                         |
| Purity/Purification                           | Protein A                                                                                                                                                                                                                                                                                                                                          |
| Form/Format                                   | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                                                                                             |
| Applicable Applications for anti-CLU antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)                                                                                                                                                                                                                                            |
| Immunogen                                     | Recombinant Human Clusterin/Apolipoprotein J/Apo-J Protein                                                                                                                                                                                                                                                                                         |
| Conjugation                                   | Unconjugated                                                                                                                                                                                                                                                                                                                                       |
| Preparation                                   | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human Clusterin/Apolipoprotein J/Apo-J (rh Clusterin/Apolipoprotein J/Apo-J). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| Preparation and Storage                       | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.                                                                              |

### IMAGES



#### WB (Western Blot)

Anti-CLU mouse monoclonal antibody at 1:500 dilution Lane A: Hela Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 52 kDa Observed band size: 57 kDa



#### FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human CLU expression on A549 cells. The cells were treated according to manufacturer's manual (BD Pharmingen), stained with purified anti-Human CLU, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



#### IF (Immunofluorescence)

Immunofluorescence staining of Human CLU in Hela cells. Cells were fixed with 4% PFA, permeabilized with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with Mouse anti-Human CLU monoclonal antibody (1:300) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-mouse IgG secondary antibody (green). Positive staining was localized to cytoplasm.

### ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CLU antibody | <p>Clusterin, also known as complement-associated protein SP-40, Complement cytolysis inhibitor, Apolipoprotein J, Testosterone-repressed prostate message 2, Aging-associated gene 4 protein, CLU and APOJ, is a secreted protein which belongs to the clusterin family. Clusterin/Apolipoprotein J/Apo-J is an enigmatic glycoprotein with a nearly ubiquitous tissue distribution and an apparent involvement in biological processes ranging from mammary gland involution to neurodegeneration in Alzheimer's disease. Its major form, a heterodimer, is secreted and present in physiological fluids, but truncated forms targeted to the nucleus have also been identified.</p> <p>Clusterin/Apolipoprotein J/Apo-J is a widely distributed glycoprotein with a wide range of biologic properties. A prominent and defining feature of clusterin is its marked induction in such disease states as glomerulonephritis, cystic renal disease, renal tubular injury, neurodegenerative conditions, atherosclerosis, and myocardial infarction. Upregulation of clusterin mRNA and protein levels detected in diverse disease states and in in vitro systems have led to suggestions that it functions in membrane lipid recycling, in apoptotic cell death, and as a stress-induced secreted chaperone protein, amongst others.</p> |
| References                                        | <p>Silkensen JR, et al. (1994) The role of clusterin in tissue injury. <i>Biochem Cell Biol.</i> 72(11-12): 483-8.Naik RR, et al. (2002) Biomimetic synthesis and patterning of silver nanoparticles. <i>Nat Mater.</i> 1(3): 169-72.Djeu JY, et al. (2009) Clusterin and chemoresistance. <i>Adv Cancer Res.</i> 105: 77-92.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">42716297</a>                                                                                                                                                                                                                                |
| NCBI GeneID                      | <a href="#">1191</a>                                                                                                                                                                                                                                    |
| NCBI Accession #                 | <a href="#">NP_001822.2</a>                                                                                                                                                                                                                             |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001831.2</a>                                                                                                                                                                                                                             |
| UniProt Accession #              | <a href="#">P10909</a> ; <a href="#">P11380</a> ; <a href="#">P11381</a> ; <a href="#">Q2TU75</a> ; <a href="#">Q5HYC1</a> ; <a href="#">Q7Z5B9</a> ; <a href="#">B2R9Q1</a> ; <a href="#">B3KSE6</a> ; <a href="#">AAB25217</a>                        |
| Molecular Weight                 | 53,643 Da                                                                                                                                                                                                                                               |
| NCBI Official Full Name          | clusterin isoform 1                                                                                                                                                                                                                                     |
| NCBI Official Synonym Full Names | clusterin                                                                                                                                                                                                                                               |
| NCBI Official Symbol             | CLU                                                                                                                                                                                                                                                     |
| NCBI Official Synonym Symbols    | CLI; AAG4; APOJ; CLU1; CLU2; KUB1; SGP2; APO-J; SGP-2; SP-40; TRPM2; TRPM-2; NA1/NA2                                                                                                                                                                    |
| NCBI Protein Information         | clusterin; apolipoprotein J; ku70-binding protein 1; sulfated glycoprotein 2; aging-associated protein 4; complement lysis inhibitor; complement cytolysis inhibitor; complement-associated protein SP-40,40; testosterone-repressed prostate message 2 |
| UniProt Protein Name             | Clusterin                                                                                                                                                                                                                                               |
| UniProt Gene Name                | <b>CLU</b>                                                                                                                                                                                                                                              |
| UniProt Synonym Gene Names       | APOJ; CLI; KUB1; Apo-J; CLI; TRPM-2                                                                                                                                                                                                                     |
| UniProt Entry Name               | CLUS_HUMAN                                                                                                                                                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/monoclonal/clusterin-antibody-clone-9e2e2-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/255395>