Datasheet for 600-401-AM0

# Clusterin Antibody

## Overview

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| **Description:** | Anti-Clusterin (RABBIT) Antibody - 600-401-AM0 |
| **Item No.:** | 600-401-AM0 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IF, IHC, WB |
| **Reactivity:** | Human |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | Clusterin, also known as Apolipoprotein J (ApoJ), is a ubiquitous multifunctional glycoprotein that can interact with a broad spectrum of molecules such as complement components, various receptors, and the Alzheimer's b-amyloid peptide. Clusterin expression is increased in Alzheimer's disease brain tissue and clusterin-immunoreactive amyloid plaques are found associated with phospho-tau-positive dystrophic neurites and it has been suggested that clusterin facilitates the conversion of diffuse b-amyloid deposits into amyloid and enhances tau phosphorylation in neurites around these plaques. Other reports show that clusterin expression is decreased in proliferating cells and is upregulated in quiescent and senescent cells, suggesting that it may also play a role in aging and tumorigenesis suppression. Clusterin exists in at least two distinct isoforms. |
| **Synonyms:** | Clusterin Antibody, CLI, AAG4, APOJ, CLU1, CLU2, KUB1, SGP2, APO-J, SGP-2, SP-40, TRPM2, TRPM-2, NA1/NA2, CLI, Clusterin, Aging-associated gene 4 protein, Apo-J |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | CLU |
| **Reactivity:** | Human |
| **Immunogen Type:** | Recombinant Protein |

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| **Immunogen:** | Anti-Clusterin antibody was raised recombinant human Clusterin isoform 1. |
| **Purity/Specificity:** | Anti-Clusterin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Clusterin from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - P10909<br>• GeneID - 1191<br>• NCBI - NP_001822 |

## Application Details

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| **Tested Applications:** | ELISA, IF, IHC, WB |
| **Application Note:** | Anti-Clusterin Antibody has been tested for use in ELISA, Western Blotting, immunofluorescence, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 52 kDa in Western Blots of specific cell lysates and tissues. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:5000 - 1:10000 |
| **IF:** | 20 µg/mL |
| **IHC:** | 10 µg/mL |
| **WB:** | 0.5-1 µg/mL |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |

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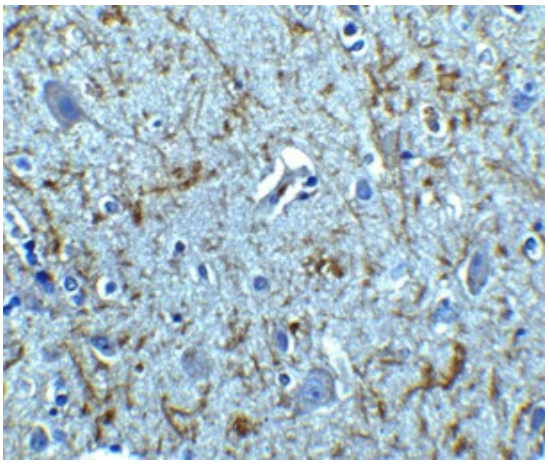
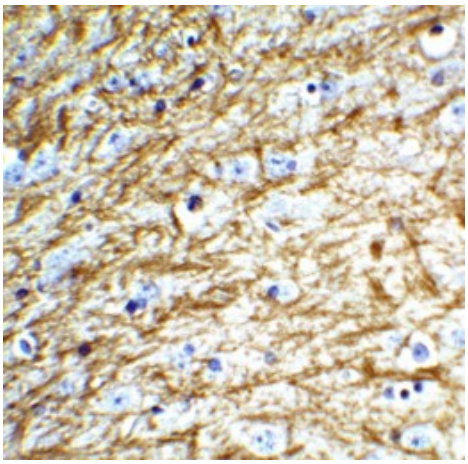
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

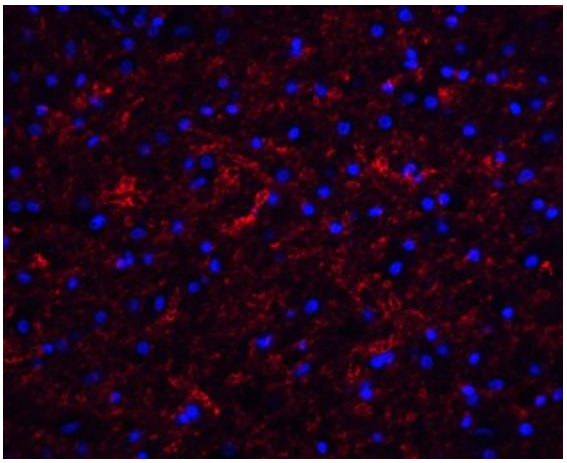
## Images



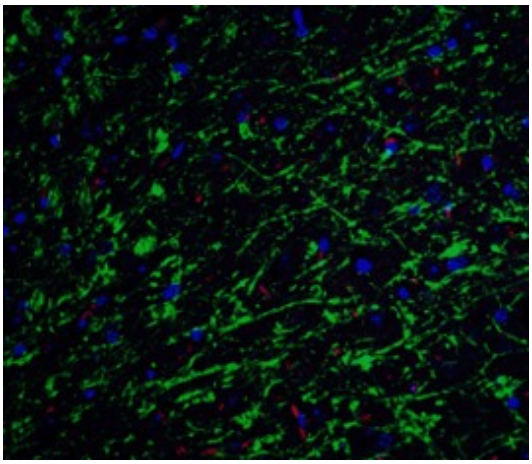
**Immunohistochemistry**
Immunohistochemistry of Clusterin in human brain tissue with Clusterin antibody at 5 µg/mL.



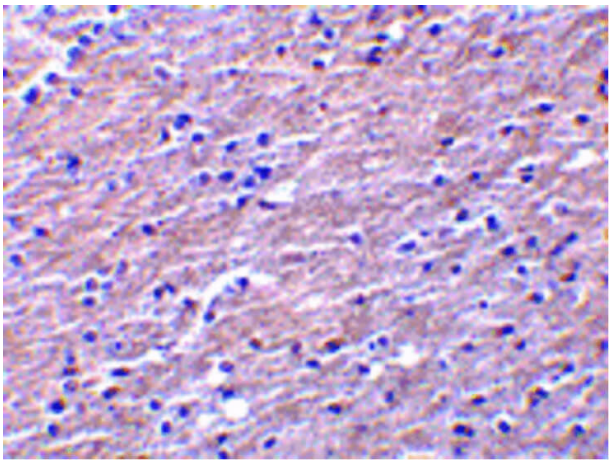
**Immunohistochemistry**
Immunohistochemistry of Clusterin in mouse brain tissue with Clusterin Antibody at 5 µg/mL.



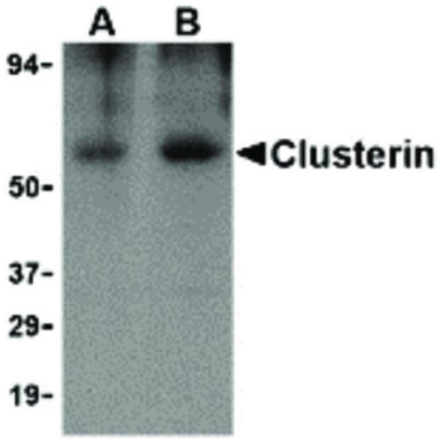
**Immunofluorescence Microscopy**
Immunofluorescence of Clusterin in human brain tissue with Clusterin antibody at 20 µg/ml.
Red: Clusterin Antibody.
Blue: DAPI staining.



**Immunofluorescence Microscopy**
Immunofluorescence of Clusterin in mouse brain tissue with Clusterin Antibody at 20 µg/mL.
Red: Phylloidin staining.
Blue: DAPI staining.



**Immunohistochemistry**
Immunohistochemistry of Clusterin antibody. Tissue: human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Clusterin antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Clusterin is located in the cytoplasm, cytoplasmic vesicle, endoplasmic reticulum, membrane, microsome, mitochondrion, nucleus, and is secreted. Staining: Clusterin is stained with hematoxylin purple nuclear counterstain.




**Western Blot**

Western Blot of Clusterin antibody in human brain tissue lysate. Lane A: Clusterin antibody at 0.5 µg/mL. Lane B: Clusterin antibody at 1 µg/mL. Load: 35 µg per lane. Primary antibody: Clusterin antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 52 kDa, 58 kDa for Clusterin. Other band(s): Clusterin splice variants and isoforms.

## Disclaimer

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