

**Clusterin / APOJ (aa44-58) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3813a

**Specification**

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**Clusterin / APOJ (aa44-58) Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">P10909</a>
Other Accession	<a href="#">NP_976084.1</a> , <a href="#">1191</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	52495

**Clusterin / APOJ (aa44-58) Antibody (internal region) - Additional Information**

Gene ID 1191

**Other Names**

Clusterin, Aging-associated gene 4 protein, Apolipoprotein J, Apo-J, Complement cytolysis inhibitor, CLI, Complement-associated protein SP-40, 40, Ku70-binding protein 1, NA1/NA2, Testosterone-repressed prostate message 2, TRPM-2, Clusterin beta chain, ApoJalpha, Complement cytolysis inhibitor a chain, Clusterin alpha chain, ApoJbeta, Complement cytolysis inhibitor b chain, CLU, APOJ, CLI, KUB1

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Clusterin / APOJ (aa44-58) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Clusterin / APOJ (aa44-58) Antibody (internal region) - Protein Information**

Name CLU ([HGNC:2095](#))

**Function**

[Isoform 1]: Functions as extracellular chaperone that prevents aggregation of non native proteins (PubMed:<a href="http://www.uniprot.org/citations/11123922" target="\_blank">11123922</a>, PubMed:<a href="http://www.uniprot.org/citations/19535339" target="\_blank">19535339</a>). Prevents stress-induced aggregation of blood plasma proteins (PubMed:<a

<http://www.uniprot.org/citations/11123922> target="\_blank">11123922</a>, PubMed:<a href="http://www.uniprot.org/citations/12176985" target="\_blank">12176985</a>, PubMed:<a href="http://www.uniprot.org/citations/17260971" target="\_blank">17260971</a>, PubMed:<a href="http://www.uniprot.org/citations/19996109" target="\_blank">19996109</a>). Inhibits formation of amyloid fibrils by APP, APOC2, B2M, CALCA, CSN3, SNCA and aggregation-prone LYZ variants (in vitro) (PubMed:<a href="http://www.uniprot.org/citations/12047389" target="\_blank">12047389</a>, PubMed:<a href="http://www.uniprot.org/citations/17407782" target="\_blank">17407782</a>, PubMed:<a href="http://www.uniprot.org/citations/17412999" target="\_blank">17412999</a>). Does not require ATP (PubMed:<a href="http://www.uniprot.org/citations/11123922" target="\_blank">11123922</a>). Maintains partially unfolded proteins in a state appropriate for subsequent refolding by other chaperones, such as HSPA8/HSC70 (PubMed:<a href="http://www.uniprot.org/citations/11123922" target="\_blank">11123922</a>). Does not refold proteins by itself (PubMed:<a href="http://www.uniprot.org/citations/11123922" target="\_blank">11123922</a>). Binding to cell surface receptors triggers internalization of the chaperone-client complex and subsequent lysosomal or proteasomal degradation (PubMed:<a href="http://www.uniprot.org/citations/21505792" target="\_blank">21505792</a>). Protects cells against apoptosis and against cytolysis by complement (PubMed:<a href="http://www.uniprot.org/citations/2780565" target="\_blank">2780565</a>). Intracellular forms interact with ubiquitin and SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes and promote the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:<a href="http://www.uniprot.org/citations/20068069" target="\_blank">20068069</a>). Promotes proteasomal degradation of COMMD1 and IKBKB (PubMed:<a href="http://www.uniprot.org/citations/20068069" target="\_blank">20068069</a>). Modulates NF-kappa-B transcriptional activity (PubMed:<a href="http://www.uniprot.org/citations/12882985" target="\_blank">12882985</a>). A mitochondrial form suppresses BAX- dependent release of cytochrome c into the cytoplasm and inhibit apoptosis (PubMed:<a href="http://www.uniprot.org/citations/16113678" target="\_blank">16113678</a>, PubMed:<a href="http://www.uniprot.org/citations/17689225" target="\_blank">17689225</a>). Plays a role in the regulation of cell proliferation (PubMed:<a href="http://www.uniprot.org/citations/19137541" target="\_blank">19137541</a>). An intracellular form suppresses stress-induced apoptosis by stabilizing mitochondrial membrane integrity through interaction with HSPA5 (PubMed:<a href="http://www.uniprot.org/citations/22689054" target="\_blank">22689054</a>). Secreted form does not affect caspase or BAX-mediated intrinsic apoptosis and TNF-induced NF-kappa-B-activity (PubMed:<a href="http://www.uniprot.org/citations/24073260" target="\_blank">24073260</a>). Secreted form act as an important modulator during neuronal differentiation through interaction with STMN3 (By similarity). Plays a role in the clearance of immune complexes that arise during cell injury (By similarity).

### Cellular Location

[Isoform 1]: Secreted. Note=Can retrotranslocate from the secretory compartments to the cytosol upon cellular stress. [Isoform 6]: Cytoplasm. Note=Keeps cytoplasmic localization in stressed and unstressed cell.

### Tissue Location

Detected in blood plasma, cerebrospinal fluid, milk, seminal plasma and colon mucosa. Detected in the germinal center of colon lymphoid nodules and in colon parasympathetic ganglia of the Auerbach plexus (at protein level). Ubiquitous. Detected in brain, testis, ovary, liver and pancreas, and at lower levels in kidney, heart, spleen and lung.

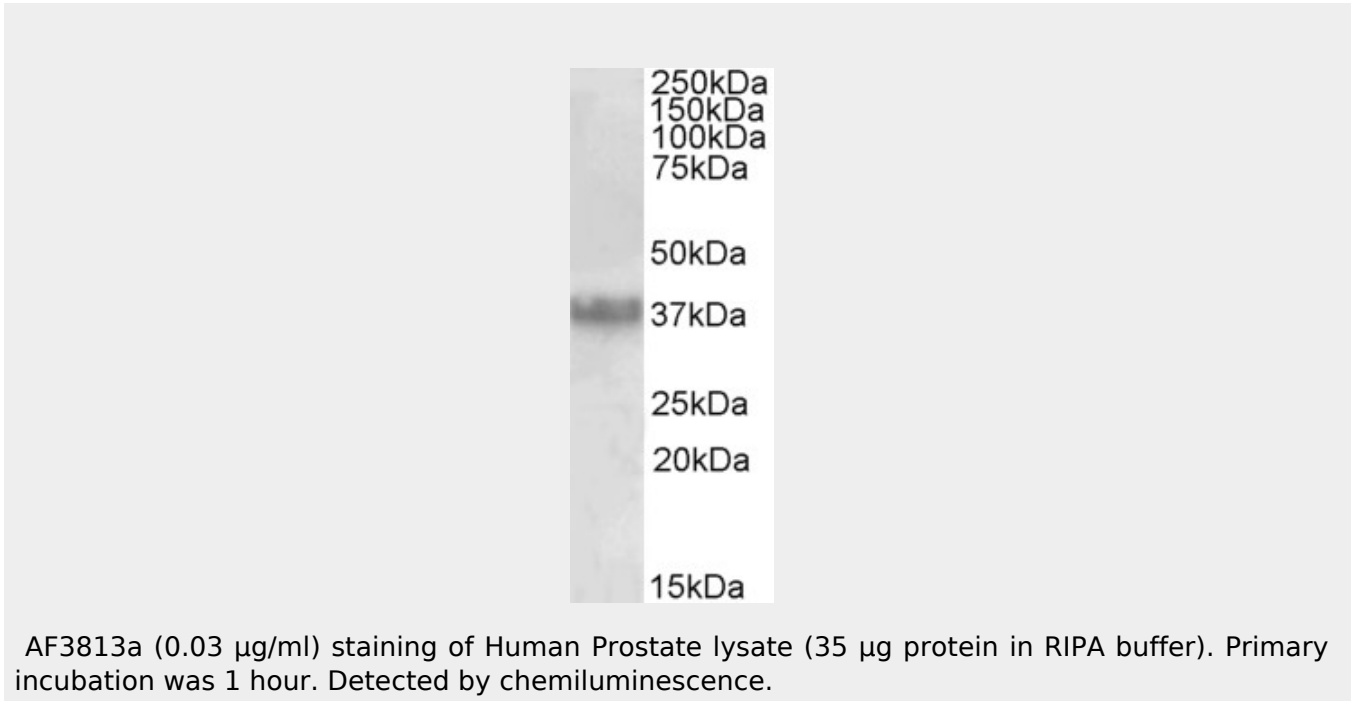
### Clusterin / APOJ (aa44-58) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Clusterin / APOJ (aa44-58) Antibody (internal region) - Images**



#### **Clusterin / APOJ (aa44-58) Antibody (internal region) - References**

Intracellular clusterin negatively regulates ovarian chemoresistance: compromised expression sensitizes ovarian cancer cells to paclitaxel. Hassan MK, Watari H, Christenson L, Bettuzzi S, Sakuragi N. *Tumour Biol.* 2011 Oct;32(5):1031-47. PMID: 21761117