

## Polyclonal Antibody to Apolipoprotein J / Apo J - Purified

<b>Alternate names:</b>	40, 40, AAG4, APOJ, Aging-associated gene 4 protein, CLI, Clusterin, Complement cytolysis inhibitor, Complement-associated protein SP-40, KUB1, Ku70-binding protein 1, NA1/NA2, SP-40, Testosterone-repressed prostate message 2
<b>Catalog No.:</b>	AP05554PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0mg/ml
<b>Background:</b>	<p>Clusterin is a ubiquitous glycoprotein which exists in at least two distinct isoforms; a proapoptotic nuclear form, of 49kDa, and a prosurvival secretory form with a molecular weight of 75-80kDa. Clusterin is implicated in several diverse physiological processes including sperm maturation, cell differentiation, and apoptosis.</p> <p>Clusterin upregulation has been reported in various human malignancies, including bladder, prostate, and breast tumours. Following specific stress induced injury, secretory clusterin acts as a molecular chaperone, scavenging denatured proteins outside cells. It has been shown to be upregulated in Alzheimer</p>
<b>Uniprot ID:</b>	<a href="#">P10909</a>
<b>NCBI:</b>	<a href="#">NP_976084.1</a>
<b>GeneID:</b>	<a href="#">1191</a>
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	Recombinant human clusterin isoform 1.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Buffer System:</b> Phosphate buffered saline containing 0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Applications:</b>	<p>Western Blot: 0.5 - 1.0 µg/ml; detects a band of approximately 60kDa in human brain tissue lysate.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	This antibody recognises clusterin (also known as apolipoprotein J).
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>Caution:</b>	(A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
<b>General Readings:</b>	<ol style="list-style-type: none"><li>1. Trougakos, I. and Gonos, E. (2002) Clusterin/Apolipoprotein J in human aging and cancer. <i>Int. J. Biochem. Cell Biol.</i> 34: 1430 - 1448.</li><li>2. Calero, M. et al. (2005) Clusterin and Alzheimers disease. <i>Subcell. Biochem.</i> 38: 273 -</li></ol>

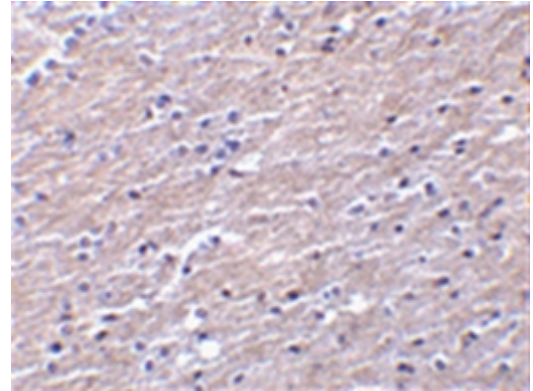
298.

3. Leskov KS, Klokov DY, Li J, Kinsella TJ, Boothman DA. Synthesis and functional analyses of nuclear clusterin, a cell death protein. *J Biol Chem*. 2003 Mar 28;278(13):11590-600. Epub 2003 Jan 24. PubMed PMID: 12551933.

4. Carreras I, Garrett-Young R, Ullman MD, Eisenhauer PB, Fine RE, Wells JM, et al. Upregulation of clusterin/apolipoprotein J in lactacystin-treated SH-SY5Y cells. *J Neurosci Res*. 2005 Feb 15;79(4):495-502. PubMed PMID: 15635600.

**Pictures:**

Immunohistochemical staining of human brain with Rabbit anti Human clusterin (AP05554PU-N)



Western blot analysis of human brain lysate probed with Rabbit anti Human clusterin (AP05554PU-N) at 0.5(A) and 1(B) µg/ml

