

Datasheet: AHP1011

Description:	RABBIT ANTI HUMAN CLUSTERIN
Specificity:	CLUSTERIN
Other names:	APOLIPOPROTEIN J
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species Human

Product Form Purified IgG - liquid

Antiserum Preparation Antisera to Clusterin were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.02% Sodium Azide (NaN₃)

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen Recombinant human clusterin isoform 1.

**External Database
Links**

UniProt:

[P10909](#) [Related reagents](#)

Entrez Gene:

[1191](#) CLU [Related reagents](#)

Synonyms

APOJ, CLI, KUB1

Specificity

Rabbit anti Human clusterin antibody recognizes human clusterin, also known as apolipoprotein J, Ku70-binding protein 1 or TRPM-2. Clusterin is a ubiquitous glycoprotein which exists in at least two distinct isoforms; a proapoptotic nuclear form, of ~49 kDa, and a prosurvival secretory form with a molecular mass of 75-80 kDa. Clusterin is implicated in several diverse physiological processes including sperm maturation, cell differentiation, and apoptosis.

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. Clusterin upregulated in Alzheimer's disease ([Miners et al. 2017](#)), retinitis pigmentosa ([Jomary et al 1993](#)), glomerulonephritis, atherosclerosis and myocardial infarction ([Rosenberg et al. 2002](#)).

Western Blotting

AHP1011 detects a band of approximately 60kDa in human brain tissue lysate.

Further Reading

1. Trougakos, I.P. & Gonos, E.S. (2002) Clusterin/apolipoprotein J in human aging and cancer. [Int J Biochem Cell Biol. 34 \(11\): 1430-48.](#)
2. Calero, M. *et al.* (2005) Clusterin and Alzheimer's disease. [Subcell Biochem. 38: 273-98.](#)
3. Leskov, K.S. *et al.* (2003) Synthesis and functional analyses of nuclear clusterin, a cell death protein. [J Biol Chem. 278 \(13\): 11590-600.](#)
4. Carreras, I. *et al.* (2005) Upregulation of clusterin/apolipoprotein J in lactacystin-treated SH-SY5Y cells. [J Neurosci Res. 79 \(4\): 495-502.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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