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Certificate of Analysis and Data Sheet

Rabbit Anti-Human CLUSTERIN

With HRP-conjugated Secondary Antibody

Catalog No.
DS-PB-00501

Species
Human

Isotype
Polyclonal IgG

Synonyms

APOJ, CLI

Preparation

Purification: Antisera to Clusterin were raised by repeated immunizations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Immunogen: Recombinant human clusterin isoform 1.

Specificity

DS-PB-00501 recognizes human clusterin (also known as apolipoprotein J). 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.

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's disease, retinitis pigmentosa, glomerulonephritis, atherosclerosis and myocardial infarction.

Formulation

Product Type: Polyclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.02% Sodium Azide (NaN₃)

Approx. Protein Concentrations: IgG concentration 1.0mg/ml

Storage

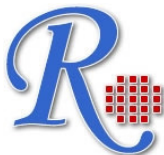
Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Avoid repeated freezing and thawing as this may denature the antibody.

Shelf Life: 18 months from date of dispatch.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Immunohistology – Paraffin			•	
Immunohistology - Frozen			•	
Western Blotting (1)	•			0.5 - 1.0ug/ml

Note: Other applications are not tested yet. Optimal dilutions should be determined.
(1) DS-PB-00501 detects a band of approximately 60kDa in human brain tissue lysate.

Secondary Antibody Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5,000-1:10,000

Reference

1. Trougakos, I. and Gonos, E. (2002) Clusterin/Apolipoprotein J in human aging and cancer. *Int. J. Biochem. Cell Biol.* 34: 1430-1448.
2. Calero, M. et al. (2005) Clusterin and Alzheimer's disease. *Subcell. Biochem.* 38: 273-298.
3. Leskov, K. et al. (2003) Synthesis and Functional Analyses of Nuclear Clusterin, a Cell Death Protein. *J. Biol.Chem.* 278: 11590-11600.
4. Carreras, I. et al. (2005) Upregulation of clusterin/apolipoprotein J in lactacystin-treated SH-SY5Y cells. *J. Neurosci. Res.* 79: 495-502

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