

Apolipoprotein J, Human Plasma

Cat # APOJ15-N-10

Apolipoprotein J, Human Plasma

Size: 10 ug

Clusterin also named Apolipoprotein J (APO-J) is a 75-80 kD disulfide-linked heterodimeric protein containing about 30% of N-linked carbohydrate rich in sialic acid but truncated forms targeted to the nucleus have also been identified. The precursor polypeptide chain is cleaved proteolytically to remove the 22-mer secretory signal peptide and subsequently between residues 227/228 to generate the a and b chains. These are assembled in anti-parallel to give a heterodimeric molecule in which the cysteine-rich centers are linked by five disulfide bridges and are flanked by two predicted coiled-coil a-helices and three predicted amphipathic a-helices.

Across a broad range of species clusterin shows a high degree of sequence homology ranging from 70% to 80%. It is nearly ubiquitously expressed in most mammalian tissues and can be found in plasma, milk, urine, cerebrospinal fluid and semen. It is able to bind and form complexes with numerous partners such as immunoglobulins, lipids, heparin, bacteria, complement components, paraoxonase, beta amyloid, leptin and others. Clusterin has been ascribed a plethora of functions such as phagocyte recruitment, aggregation induction, complement attack prevention, apoptosis inhibition, membrane remodeling, lipid transport, hormone transport and/or scavenging, matrix metalloproteinase inhibition. A genuine function of clusterin has not been defined. One tempting hypothesis says that clusterin is an extracellular chaperone protecting cells from stress induced insults caused by degraded and misfolded protein precipitates. Clusterin is up- or down regulated on the mRNA or protein level in many pathological and clinically relevant situations including cancer, organ regeneration, infection, Alzheimer disease, retinitis pigmentosa, myocardial infarction, renal tubular damage, autoimmunity and others.

Synonyms:

CLI, AAG4, KUB1, SGP2, SGP-2, SP-40, TRPM2, MGC24903, Clusterin, Apolipoprotein J, Apo-J.

Source and Form:

Apo J was purified from human plasma (>95%) using proprietary techniques. It is supplied in PBS, pH 7.5 in powder form. Reconstitute powder in PBS. Store lyophilized Clusterin at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized protein remains stable until the expiry date when stored at -20°C

Suggested Applications:

Antigen in ELISA and Western blots, excellent antigen for detection of HDV with minimal specificity problems.

all items are for in vitro research use only.

Related items

Catalog# ProdDescription

Rabbit-Poly	APOA11-S	Anti-Human Plasma
Apolipoprotein A-I protein antiserum		
Rabbit-Poly	APOA12-A	Anti-Human
Apolipoprotein A-I protein IgG, aff pure		
Rabbit-Poly	APOA13-A	Anti-Mouse
Apolipoprotein A-I protein IgG, aff pure		
	APOA15-N-100	Apolipoprotein A-I, Human Plasma,
HDL		
Goat-Poly	APOA21-A	Anti-Human Apolipoprotein A-II
protein IgG, aff pure		
	APOA25-N-100	Apolipoprotein A-II, Human Plasma,
HDL		
	APOA45-N-100	Apolipoprotein A-IV, Human
Plasma, HDL		
Goat-Poly	APOB21-A	Ant-Human Apolipoprotein B IgG,
aff pure		
	APOB21-C	Human Apolipoprotein B protein
control for WB		
	APOB25-N-100	Apolipoprotein B, Human Plasma,
LDL		
Rabbit-Poly	APOC11-A	Anti-Human
Apolipoprotein C-I IgG, aff pure		
	APOC15-N-100	Human Apolipoprotein C-I protein
control for WB		
	APOC15-N-100	Apolipoprotein C-I, Human Plasma,
VLDL		
Rabbit-Poly	APOC21-S	Anti-Human Plasma
Apolipoprotein C-II antiserum		
Rabbit-Poly	APOC22-A	Anti-Human
Apolipoprotein C-II IgG, aff pure		
	APOC25-N-50	Apolipoprotein C-II, Human Plasma,
VLDL		
Rabbit-Poly	APOC32-A	Anti-Human
Apolipoprotein C-III IgG, aff pure		
	APOC35-N-50	Apolipoprotein C-III, Human
Plasma, VLDL		
Goat-Poly	APOE11-S	Anti-Human ApoE protein antiserum
#1		
Mouse-Mono	APOE12-M	Monoclonal Anti-Human
ApoE protein IgG #2		
Rabbit-Poly	APOE13-A	Anti-Human Plasma
Apolipoprotein E (ApoE) IgG, aff pure		
	APOE15-R	Human Purified native plasma
Apolipoprotein E protein		
	APOE25-R	Recombinant Purified Human
Apolipoprotein E2 protein		
Rabbit-Poly	APOE31-S	Anti-Human ApoE3
	APOE35-R	Recombinant Purified Human
Apolipoprotein E3 protein		
	APOE36-R	Recombinant (E coli) Purified

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India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com