

Recombinant Mouse Clusterin, Flag-tagged

Cat. No. Clu-1317M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Clusterin produced in HEK293 is a single, glycosylated, polypeptide chain containing 438 amino acids and having a molecular mass of 50.55kDa. The Mouse Clusterin is fused to 11 amino acid flag tag at c-terminus and purified by proprietary chromatographic techniques.
Species	Mouse
Source	HEK293
Description	Clusterin mRNA and Clusterin protein are shown to increase with androgen treatment. Binding of clusterin to the LDL-Receptor plays a role in the pathogenesis of membranous glomerulonephritis. Clusterin is down regulated in CaP in association with matched benign controls. Clusterin is involved in cellular senescence and tumorigenesis. Clusterin is involved in photo-oxidative cell death pathway. Clusterin is a functional tumor marker for the diagnosis of pediatric large cell lymphoma. Clusterin is activated in low pH. Clusterin is involved in the inhibition of NF-kappaB signaling through stabilization of IkappaBs thus results in suppression of tumor cell motility. N-terminal deletion of clusterin is vital for its alterations of biogenesis in esophageal squamous cell carcinoma.
Amino Acid Sequence	EQEVSDNELQ ELSTQGSRYI NKEIQNAVQG VKHIKT LIEK TNAERKSLLN SLEEAKKKKE DALEDTRDSE MKLKAFPEVC NETMMALWEE CKPCLKHTCM KFYARVCRSG SGLVGQQL EE FLNQSSPFYF WMNGDRIDSL LESDRQQSQV LDAMQDSFAR ASGIIDTLFQ DRFFARELHD PHYFSPIGFP HKRPHFLYPK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SRLVRSLMSP SHYGPPSFHN MFQPPFEMIH QAQQAMDVQL HSPAFQFPDV
 DFLREGEDDR TVCKEIRRNS TGCLKMKGQC EKCQEILSVD CSTNNPAQAN
 LRQELNDSLQ VAERLTEQYK ELLQSFQSKM LNTSSLLEQL NDQFNWVSQL
 ANLTQGEDKY YLRVSTVTTH SSDSEVPSRV TEVVVKLFDS DPITVVLPEE
 VSKDNPKFMD TVA EKALQEY RRKSRAEAAA DYKDDDDK

Purity	Greater than 95% as determined by SDS PAGE.
Physical Appearance	White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from 0.5 mg/ml containing 20mM Tris pH 7.5 and 20mM NaCl.
Solubility	Add of deionized H ₂ O to a conc. of 0.5mg/ml and let the lyophilized pellet dissolve completely.
Stability	Store lyophilized protein 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.

GENE INFORMATION

Gene Name	Clu clusterin [Mus musculus]
Synonyms	Clu; clusterin; Cli; ApoJ; Sgp2; SP-40; Sgp-2; Sugp-2; AI893575; D14Ucla3; Apolipoprotein J; complement lysis inhibitor; testosterone repressed prostate message; testosterone repressed prostate message-2
Gene ID	12759
mRNA Refseq	NM_013492

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Protein Refseq	NP_038520
UniProt ID	Q06890
Chromosome Location	14 28.0cM

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