

Recombinant Canine Clusterin, Flag-tagged

Cat. No. CLU-1319C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Canine Apolipoprotein-J produced in HEK293 is a single, non-glycosylated, Polypeptide chain containing 436 amino acids and having a molecular mass of 50.72 kDa. The protein is fused with 13 amino acid Flag tag at N-Terminus. The Apolipoprotein-J Canine is purified by proprietary chromatographic techniques.
Species	Canine
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	PGDYKDDDDK PAGDQAVSDT ELQEMSTEGS KYINKEIKNA LKGVKQIKTL IEQTNEERKS LLSNLEEAKK KKEDALNDTK DSETKLKASQ GVCNDTMMAL WEECKPCLKQ TCMKFYARVC RSGSGLVGHQ LEEFLNQSSP FYFWMNGDRI DSLLENDRQQ THALDVMQDS FNRASSIMDE LFQDRFFTRE PQDTYHYSPP

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SLFQRRPFFN PKFRIARNII PFPRFQPLNF HDMFQPFFDM IHQAQQAMDV
 NLHRIPYHFP IEFPEEDNRT VCKEIRHNST GCLKMKDQCE KCQEILSVDC
 SSNNPAQVQL RQELSNSLQI AEKFTKLYDE LLQSYQEKMF NTSSLLKQLN
 EQFSWVSQLA NLTQSEDPFY LQVTTVGSQT SDSNVPVGFT KVVVKLFDSD
 PITVMIPEAV SRNNPKFMET VAEKALQEYRQKHREE

Purity	Greater than 95% as determined by SDS PAGE.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Canine Clusterin was lyophilized from 0.5mg/ml solution containing 20mM Tris buffer and 20mM NaCl,pH7.5
Solubility	Add deionized H ₂ O to a working volume of 0.5mg/ml and let the lyophilized pellet dissolve completely.
Applications	ELISA, Western Blot.
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 [<i>Canis lupus familiaris</i>]
Synonyms	CLU; clusterin; CLU; GP80; glycoprotein 80; lusterin (complement lysis inhibitor, SP-40,40, sulfated glycoprotein 2, testosterone-repressed prostate message 2, apolipoprotein J)

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Gene ID	442971
mRNA Refseq	NM_001003370
Protein Refseq	NP_001003370
UniProt ID	P25473
Chromosome Location	25

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