ARG81778
Mouse ApoJ / Clusterin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81778-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81778-002	Standard	2 X 20 ng/vial	4°C
ARG81778-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81778-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81778-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81778-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81778-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81778-008	25X Wash buffer	20 ml	4°C
ARG81778-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81778-010	STOP solution	10 ml (Ready to use)	4°C
ARG81778-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81778 Mouse ApoJ / Clusterin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse ApoJ / Clusterin in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ApoJ / Clusterin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.5%; Inter-Assay CV: 6.7%
Alternate Names	Clusterin; Apolipoprotein J; SGP-2; SP-40; APOJ; ApoJbeta; CLU2; CLU1; NA1/NA2; TRPM2; CLI; SGP2; Apo-J; TRPM-2; ApoJalpha; Aging-associated gene 4 protein; APO-J; Complement cytolysis inhibitor a chain; Ku70-binding protein 1; Complement cytolysis inhibitor b chain; Testosterone-repressed prostate message 2; Complement-associated protein SP-40,40; KUB1; AAG4; Complement cytolysis inhibitor

Application Instructions

Assay Time	~ 5 hours

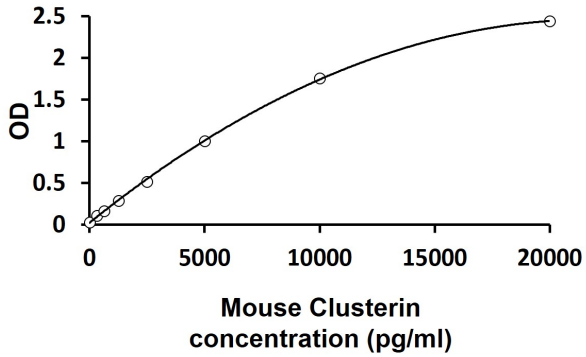
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CLU
Gene Full Name	clusterin
Background	The protein encoded by this gene is a secreted chaperone that can under some stress conditions also be found in the cell cytosol. It has been suggested to be involved in several basic biological events such as cell death, tumor progression, and neurodegenerative disorders. Alternate splicing results in both coding and non-coding variants.[provided by RefSeq, May 2011]
Function	Isoform 1 functions as extracellular chaperone that prevents aggregation of nonnative proteins. Prevents stress-induced aggregation of blood plasma proteins. Inhibits formation of amyloid fibrils by APP, APOC2, B2M, CALCA, CSN3, SNCA and aggregation-prone LYZ variants (in vitro). Does not require ATP. Maintains partially unfolded proteins in a state appropriate for subsequent refolding by other chaperones, such as HSPA8/HSC70. Does not refold proteins by itself. Binding to cell surface receptors triggers internalization of the chaperone-client complex and subsequent lysosomal or proteasomal degradation. Secreted isoform 1 protects cells against apoptosis and against cytolysis by complement. Intracellular isoforms interact with ubiquitin and SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes and promote the ubiquitination and subsequent proteasomal degradation of target proteins. Promotes proteasomal degradation of COMMD1 and IKBKB. Modulates NF-kappa-B transcriptional activity. Nuclear isoforms promote apoptosis. Mitochondrial isoforms suppress BAX-dependent release of cytochrome c into the cytoplasm and inhibit apoptosis. Plays a role in the regulation of cell proliferation. [UniProt]
Highlight	Related products: ApoJ antibodies; ApoJ ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Isoform 1 is proteolytically cleaved on its way through the secretory system, probably within the Golgi lumen. Polyubiquitinated, leading to proteasomal degradation. Heavily N-glycosylated. About 30% of the protein mass is comprised of complex N-linked carbohydrate. [UniProt]

Images



ARG81778 Mouse ApoJ / Clusterin ELISA Kit standard curve image

ARG81778 Mouse ApoJ / Clusterin ELISA Kit results of a typical standard run with optical density reading at 450 nm.