



Rabbit Anti-APOJ antibody

SL1354R

Product Name:	APOJ
Chinese Name:	载LipoproteinJ抗体
Alias:	AAG 4; AAG4 ;Aging associated protein 4; Clusterin-alpha/beta; APOJ; Apo J; Apolipoprotein J; Cli; CLU; Clusterin alpha chain; Clusterin; Clusterin beta chain; Complement associated protein SP 40 40; Complement associated protein SP 40; Complement associated protein SP40; Complement cytolysis inhibitor; Complement lysis inhibitor; KUB 1; KUB1; MGC24903; NA1/NA2; SGP 2; SGP2; SP 40; SP40; Sulfated glycoprotein 2; Testosterone repressed prostate message 2; TRPM 2; TRPM2; Clusterin- Alpha/Beta; Apolipoprotein J.
文献引用 PubMed :	<p>Specific References(2) SL1354R has been referenced in 2 publications.</p> <p>[IF=2.37]Yu, Weihua, et al. "Time-Dependent Decrease of Clusterin as a Potential Cerebrospinal Fluid Biomarker for Drug-Resistant Epilepsy." Journal of Molecular Neuroscience (2014): 1-9.IHC-P;Rat. PubMed:24488574</p> <p>[IF=4.86]Keck, Michael, et al. "A systems level analysis of epileptogenesis-associated proteome alterations." Neurobiology of Disease (2017).IHC-P;Rat. PubMed:28576708</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	Secretory protein

Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human APO J:331-449/449
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>Apolipoprotein J is the major secreted product of Sertoli cells and is thought to play a critical role in spermatogenesis. The protein was shown to be a normal constituent of human blood and is also thought to be a control mechanism of the complement cascade. It prevents the binding of a C5b-C7 complex to the membrane of the target cell and in this way inhibits complement-mediated cytolysis.</p> <p>Apolipoprotein J is overexpressed in human prostate and breast cancers and in squamous cell carcinomas. Suppression of Apolipoprotein J renders these cells sensitive to chemotherapeutic drug-mediated apoptosis. It has been proposed that elevated levels of Apolipoprotein J may promote oncogenic transformation and tumor progression by interfering with BAX proapoptotic activities.</p> <p>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.</p> <p>Subcellular Location: Nucleus. Cytoplasm. Mitochondrion membrane. Cytoplasm, cytosol. Microsome. Endoplasmic reticulum. Cytoplasmic vesicle, secretory vesicle, chromaffin granule. Isoforms lacking the N-terminal signal sequence have been shown to be cytoplasmic and/or nuclear. Secreted isoforms can retrotranslocate from the secretory compartments to the cytosol upon cellular stress. Detected in perinuclear foci that may be aggresomes containing misfolded, ubiquitinated proteins. Detected at the mitochondrion membrane</p>

upon induction of apoptosis and Secreted. Can retrotranslocate from the secretory compartments to the cytosol upon cellular stress.

Tissue Specificity:

Detected in blood plasma, cerebrospinal fluid, milk, seminal plasma and colon mucosa. Detected in the germinal center of colon lymphoid nodules and in colon parasympathetic ganglia of the Auerbach plexus (at protein level). Ubiquitous. Detected in brain, testis, ovary, liver and pancreas, and at lower levels in kidney, heart, spleen and lung.

Post-translational modifications:

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.

Similarity:

Belongs to the clusterin family.

SWISS:

P10909

Gene ID:

1191

Database links:

[Entrez Gene: 1191](#)Human

[Entrez Gene: 12759](#)Mouse

[Entrez Gene: 24854](#)Rat

[Omin: 185430](#)Human

[SwissProt: P10909](#)Human

[SwissProt: Q06890](#)Mouse

[SwissProt: P05371](#)Rat

[Unigene: 436657](#)Human

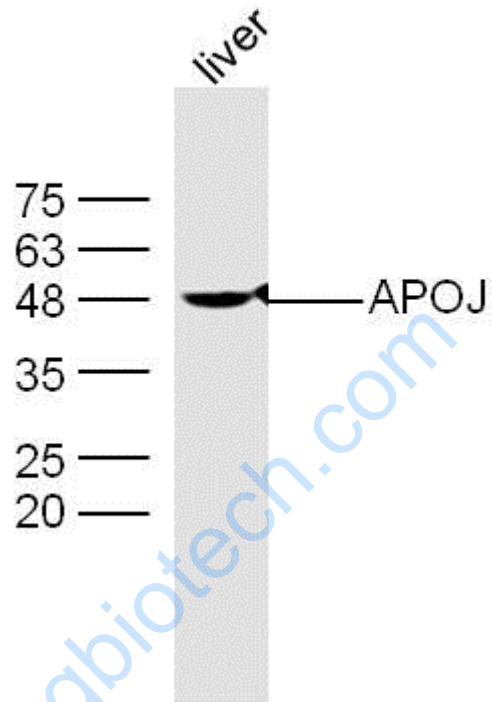
[Unigene: 200608](#)Mouse

[Unigene: 1780](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



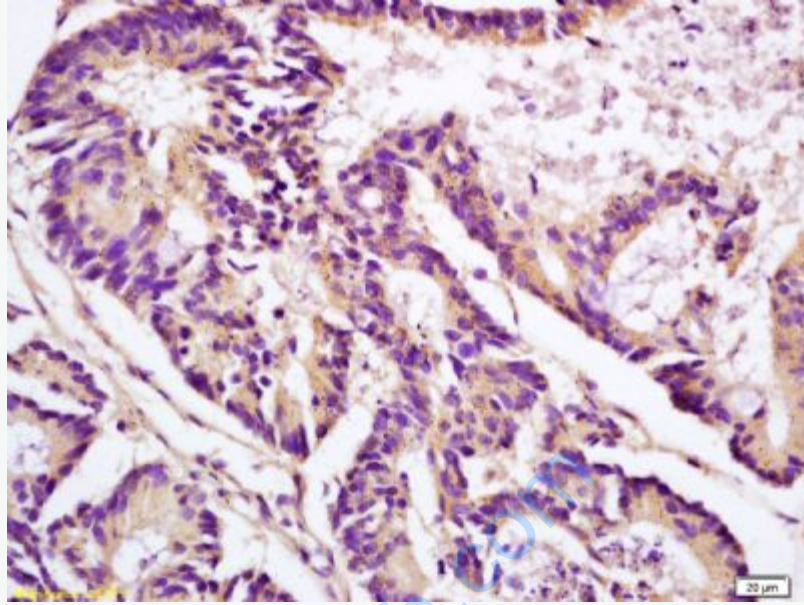
Sample: Liver(Mouse) lysate at 30ug;

Primary: Anti-APOJ(SL1354R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL1354R) at 1: 5000 dilution;

Predicted band size : 50kD

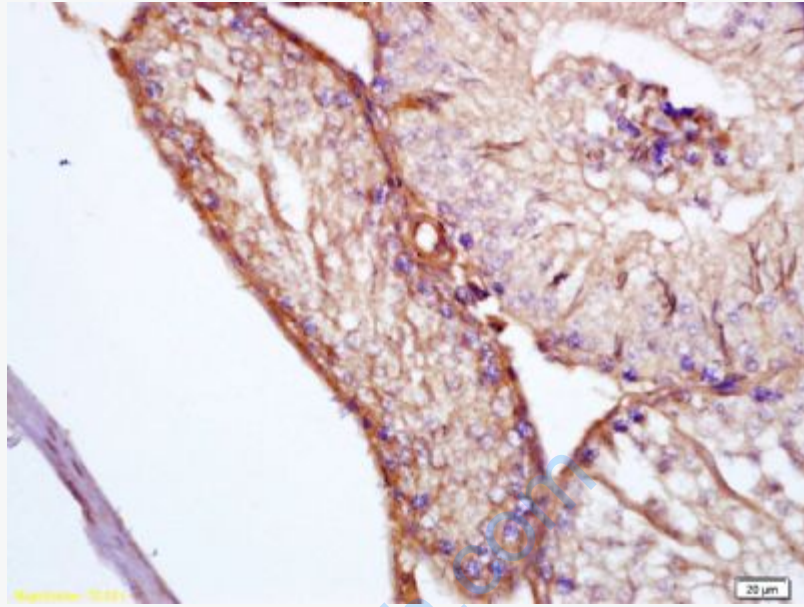
Observed band size : 48kD



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-APOJ/Clusterin Polyclonal Antibody, Unconjugated(SL1354R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-APOJ/Clusterin Polyclonal Antibody, Unconjugated(SL1354R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining