



# Anti-CLU monoclonal antibody, clone 3R3/2 (CABT-47935MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

This product recognises clusterin, an ubiquitously expressed protein of two 40-kD chains, alpha and beta, covalently joined by disulfide bonds. It exists in two forms; a pro-apoptotic form localised to the nucleus and a pro-survival secreted form. Both are thought to be involved in DNA repair and cell cycle regulation. The secreted form is thought to inhibit apoptotic signalling by BAX, Clusterin suppression can sensitise cells to chemotherapy. Clusterin is overexpressed in human prostate cancer, breast cancers and squamous cell carcinomas. Part of the SC5b-9 complex, clusterin prevents the binding of a C5b-C7 complex to the membrane of the target cell inhibiting the complement cascade. Clusterin acts as an extracellular chaperone inhibiting the formation of human lysozyme amyloid associated with Alzheimer's disease. Clusterin is also important in spermatogenesis and is secreted by Sertoli cells.

Specificity	CLU
Immunogen	Glomerular basement membrane from a post-mortem kidney.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	3R3/2
Conjugate	Unconjugated
Applications	IHC-Fr; ELISA; FC; WB
Format	Purified IgG - liquid
Size	100 µg

<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CLU clusterin [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CLU
<b>Synonyms</b>	CLU; clusterin; CLI; AAG4; APOJ; CLU1; CLU2; KUB1; SGP2; APO-J; SGP-2; SP-40; TRPM2; TRPM-2; NA1/NA2; apolipoprotein J; ku70-binding protein 1; sulfated glycoprotein 2; aging-associated protein 4; complement lysis inhibitor; complement cytolysis inhibitor
<b>Entrez Gene ID</b>	<a href="#">1191</a>
<b>Protein Refseq</b>	<a href="#">NP_001822</a>
<b>UniProt ID</b>	P10909
<b>Chromosome Location</b>	8p21-p12
<b>Pathway</b>	Hemostasis; Platelet activation, signaling and aggregation; Platelet degranulation; Response to elevated platelet cytosolic Ca <sup>2+</sup> ; Validated targets of C-MYC transcriptional repression;
<b>Function</b>	NOT ATPase activity; misfolded protein binding; protein binding; ubiquitin protein ligase binding;