

Product datasheet

Anti-Clusterin antibody ab79280

★★★★★ 3 Abreviews 3 Images

Overview

Product name	Anti-Clusterin antibody
Description	Goat polyclonal to Clusterin
Host species	Goat
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Synthetic peptide corresponding to Mouse Clusterin aa 435-448 (C terminal). Sequence: C-EKALQEYRRKSRAE

 [Run BLAST with](#)

 [Run BLAST with](#)

General notes

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
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Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	ab79280 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab79280** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		
WB		

Application notes	<p>Peptide ELISA: Antibody detection limit dilution 1/8000.</p> <p>WB: Use at a concentration of 0.3 - 1 µg/ml. Detects a band of approximately 37 kDa (predicted molecular weight: 52 kDa).</p> <p>Not yet tested in other applications.</p> <p>Optimal dilutions/concentrations should be determined by the end user.</p>
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Target

Function	<p>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>
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Tissue specificity	<p>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.</p>
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Sequence similarities

Belongs to the clusterin family.

Post-translational modifications

Isoform 1 is proteolytically cleaved on its way through the secretory system, probably within the Golgi lumen.

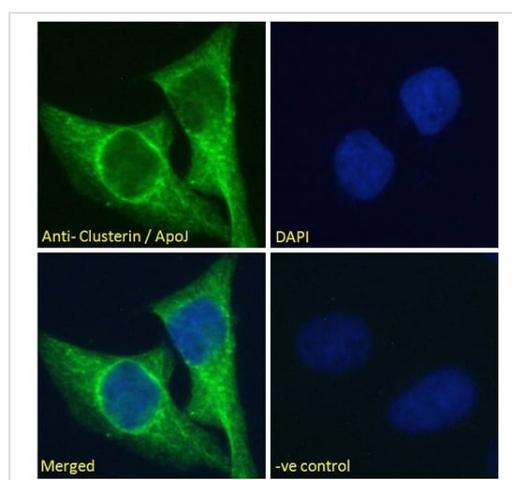
Polyubiquitinated, leading to proteasomal degradation.

Heavily N-glycosylated. About 30% of the protein mass is comprised of complex N-linked carbohydrate.

Cellular localization

Secreted. Can retrotranslocate from the secretory compartments to the cytosol upon cellular stress and 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 aggregates containing misfolded, ubiquitinated proteins. Detected at the mitochondrion membrane upon induction of apoptosis.

Images



HeLa cells stained for Clusterin (green) using ab79280 at 10 µg/ml in ICC/IF. Cells were permeabilized with 0.15% Triton. DAPI was used as a nuclear counterstain.

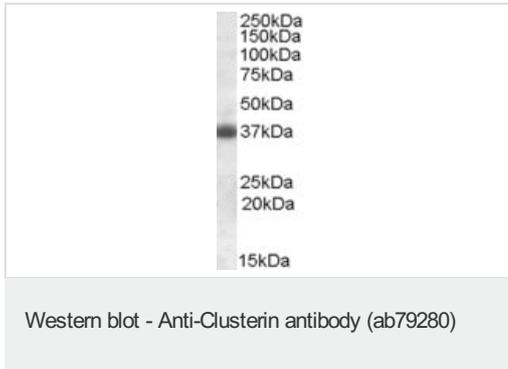
Immunocytochemistry/ Immunofluorescence - Anti-Clusterin antibody (ab79280)



Anti-Clusterin antibody (ab79280) at 0.3 µg/ml + Human Testis lysate at 35 µg

Predicted band size: 52 kDa

Western blot - Anti-Clusterin antibody (ab79280)



Anti-Clusterin antibody (ab79280) at 0.3 µg/ml + Rat Brain lysate (in RIPA buffer) at 35 µg

Predicted band size: 52 kDa

Observed band size: 37 kDa

[why is the actual band size different from the predicted?](#)

The observed molecular weight corresponds to earlier findings in literature with different antibodies (Miyata et al, Circulation. 2001 Sep 18;104(12):1407-12.; PMID: 11560857).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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