

Anti-Clusterin antibody [EPR2911] - Low endotoxin, Azide free ab229445

敲除验证
重组
RabMAb

4 图像

概述

产品名称	Anti-Clusterin抗体[EPR2911] - Low endotoxin, Azide free
描述	兔单克隆抗体[EPR2911] to Clusterin - Low endotoxin, Azide free
宿主	Rabbit
经测试应用	适用于: IHC-P, WB
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: human breast carcinoma and testis tissue; WB: human testis, brain, tonsil, fetal brain and plasma lysates
常规说明	<p>ab229445 is the carrier-free version of ab92548.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Our Low endotoxin, azide-free formats have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.</p>

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR2911
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab229445 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab 评论	说明
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
WB		Use at an assay dependent concentration. Predicted molecular weight: 52 kDa.

靶标

功能	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.
组织特异性	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.

序列相似性

Belongs to the clusterin family.

翻译后修饰

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

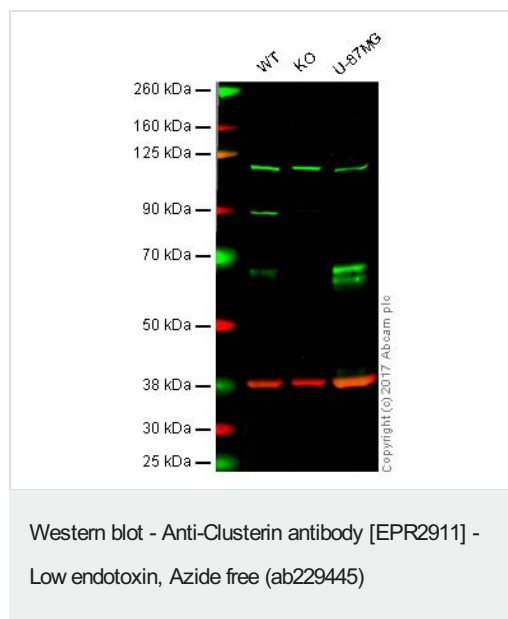
Polyubiquitinated, leading to proteasomal degradation.

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

细胞定位

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 aggresomes containing misfolded, ubiquitinated proteins. Detected at the mitochondrion membrane upon induction of apoptosis.

图片



All lanes : Anti-Clusterin antibody [EPR2911] ([ab92548](#)) at 1/1000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : Clusterin knockout HAP1 whole cell lysate

Lane 3 : U87-MG whole cell lysate

Lysates/proteins at 20 µg per lane.

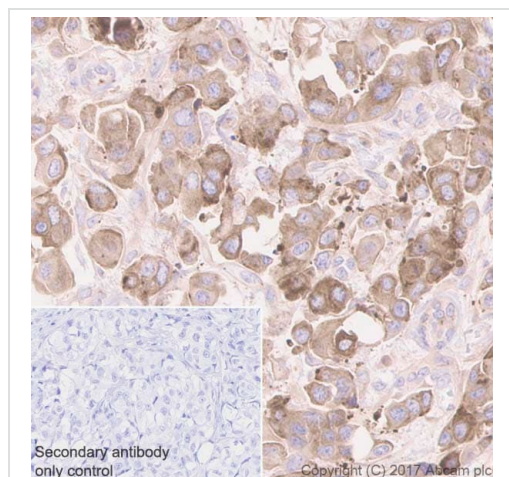
Predicted band size: 52 kDa

Lanes 1 - 3: Merged signal (red and green). Green - [ab92548](#) observed at 68 kDa. Red - loading control, [ab9484](#), observed at 37 kDa.

[ab92548](#) was shown to recognize Clusterin in wild-type HAP1 cells as signal was lost at the expected MW in Clusterin knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and Clusterin knockout samples were subjected to SDS-PAGE. Ab92548 and [ab9484](#) (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye® 680RD)

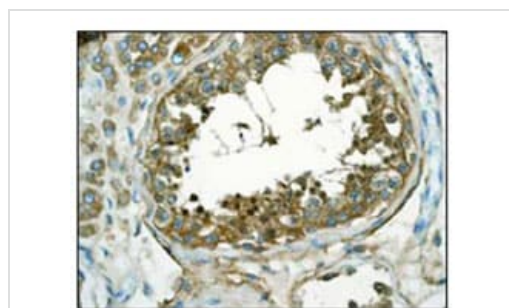
preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229445**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Clusterin antibody
[EPR2911] - Low endotoxin, Azide free (**ab229445**)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue sections labeling Clusterin with purified **ab92548** at 1/450 dilution (0.23 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92548**)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Clusterin antibody
[EPR2911] - Low endotoxin, Azide free (**ab229445**)

This IHC data was generated using the same anti-Clusterin antibody clone, EPR2911, in a different buffer formulation (cat# **ab925480**).

ab92548 (unpurified) at 1/100 dilution staining Apolipoprotein J in Human testis tissue by Immunohistochemistry Formalin-fixed, Paraffin-embedded tissue.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Clusterin antibody [EPR2911] - Low endotoxin,
Azide free (ab229445)

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

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