

Anti-Clusterin Antibody [PSH04-33]

HA722116



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 52 kDa
Clone number:	PSH04-33

Description: Clusterin (apolipoprotein J) is a 75-80 kDa disulfide-linked heterodimeric protein associated with the clearance of cellular debris and apoptosis. In humans, clusterin is encoded by the CLU gene on chromosome 8. CLU is a molecular chaperone responsible for aiding protein folding of secreted proteins, and its three isoforms have been differentially implicated in pro- or antiapoptotic processes. Through this function, CLU is involved in many diseases related to oxidative stress, including neurodegenerative diseases, cancers, inflammatory diseases, and aging.

Immunogen: Synthetic peptide within human Clusterin aa 400-449 / 449.

Positive control: HeLa cell lysate, SK-Br-3 cell lysate, A431 cell lysate, PANC-1 cell lysate, MCF7 cell lysate, T-47D cell lysate, human lung cancer tissue, human prostate cancer tissue, human pancreas tissue, human tonsil tissue.

Subcellular location: Nucleus, Cytoplasm, Mitochondrion membrane, cytosol, Microsome, Endoplasmic reticulum, Mitochondrion, perinuclear region, Cytoplasmic vesicle, secretory vesicle, chromaffin granule.

Database links: SwissProt: P10909 Human

Recommended Dilutions:

WB	1:2,000
IHC-P	1:8,000
IF-Tissue	1:2,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

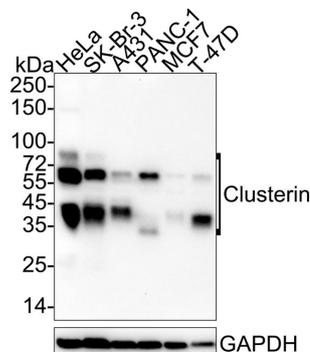
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Images

Fig1: Western blot analysis of Clusterin on different lysates with Rabbit anti-Clusterin antibody (HA722116) at 1/2,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: SK-Br-3 cell lysate (20 µg/Lane)
 Lane 3: A431 cell lysate (20 µg/Lane)
 Lane 4: PANC-1 cell lysate (20 µg/Lane)
 Lane 5: MCF7 cell lysate (20 µg/Lane)
 Lane 6: T-47D cell lysate (20 µg/Lane)

Predicted band size: 52 kDa
 Observed band size: 35-80 kDa

Exposure time: 1 minute 50 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722116) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Application: IF-Tissue

Species: Human

Site: pancreas

Sample: Paraffin-embedded section

Antibody concentration: 1/2,000

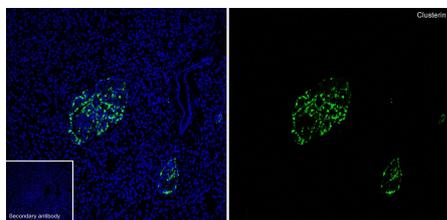
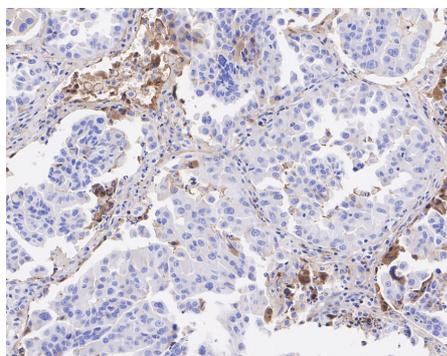


Fig3: Immunohistochemical analysis of paraffin-embedded human lung cancer tissue with Rabbit anti-Clusterin antibody (HA722116) at 1/8,000 dilution.



The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722116) at 1/8,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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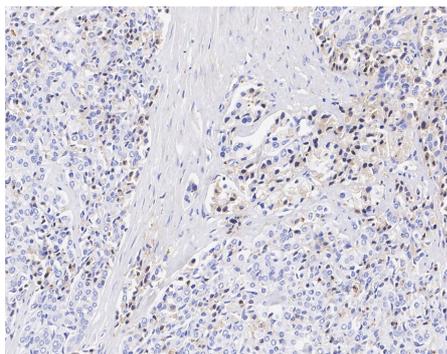


Fig4: Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue with Rabbit anti-Clusterin antibody (HA722116) at 1/8,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722116) at 1/8,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

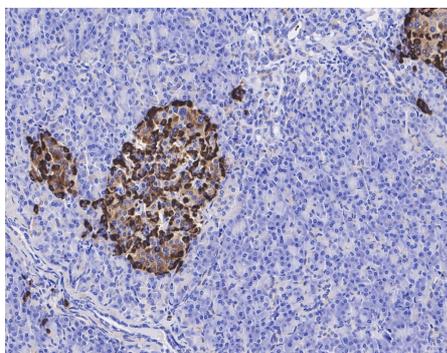


Fig5: Immunohistochemical analysis of paraffin-embedded human pancreas tissue with Rabbit anti-Clusterin antibody (HA722116) at 1/8,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722116) at 1/8,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

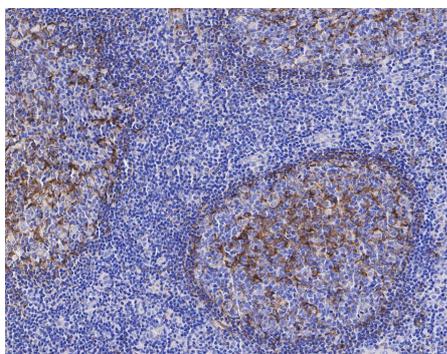


Fig6: Immunohistochemical analysis of paraffin-embedded human tonsil tissue with Rabbit anti-Clusterin antibody (HA722116) at 1/8,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722116) at 1/8,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. De Miguel Z et al. Exercise plasma boosts memory and dampens brain inflammation via clusterin. *Nature*. 2021 Dec
2. Yuste-Checa P et al. The chaperone Clusterin in neurodegeneration-friend or foe? *Bioessays*. 2022 Jul

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