

Aldolase A/B/C Recombinant Antibody [PSH01-81] - Rat IgG1 (Chimeric)

HA601512



Product Type:	Recombinant Chimeric Antibody, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	IHC-Fr, IHC-P, WB
Molecular Wt:	Predicted band size: 40 kDa
Clone number:	PSH01-81

Description: ALDOC is a member of the class I fructose-biphosphate aldolase gene family. Expressed specifically in the hippocampus and Purkinje cells of the brain, Aldolase C is a glycolytic enzyme that catalyzes the reversible aldol cleavage of fructose-1,6-biphosphate and fructose 1-phosphate to dihydroxyacetone phosphate and either glyceraldehyde-3-phosphate or glyceraldehyde, respectively.

Immunogen: Synthetic peptide within Human Aldolase C aa 50-100.

Positive control: Mouse brain tissue, rat brain tissue, U-87 MG cell lysate, RAW264.7 cell lysate, C6 cell lysate, Mouse brain tissue lysate, Rat brain tissue lysate.

Subcellular location: cytoskeleton, cytosol, extracellular exosome, extracellular region

Database links: SwissProt: P09972 Human | P05063 Mouse | P09117 Rat

Recommended Dilutions:

IHC-Fr	1:500
IHC-P	1:2,000
WB	1:5,000

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

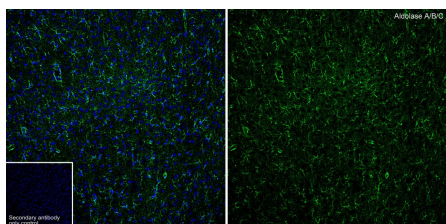
Technical: 0086-571-89986345

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

**Fig1:** Application: IHC-Fr

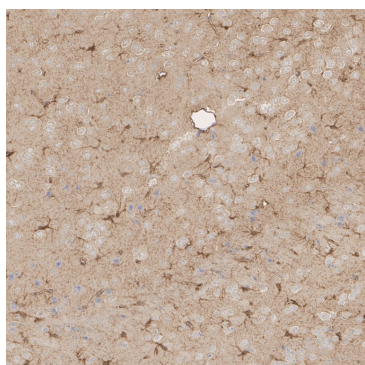
Species: Mouse

Site: brain

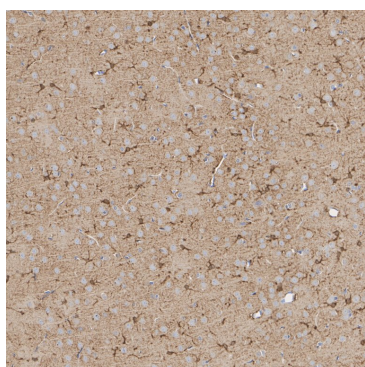
Sample: Frozen section

Antibody concentration: 1/500

Antigen retrieval: Not required

**Fig2:** Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Rat anti-Aldolase A/B/C antibody (HA601512) at 1/2,000 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 (HA601512) at 1/2,000 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.

**Fig3:** Immunohistochemical analysis of paraffin-embedded rat brain tissue with Rat anti-Aldolase A/B/C antibody (HA601512) at 1/2,000 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 (HA601512) at 1/2,000 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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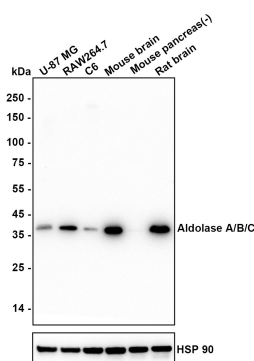
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Fig4: Western blot analysis of Aldolase A/B/C on different lysates with Rat anti-Aldolase A/B/C antibody (HA601512) at 1/5,000 dilution.

Lane 1: U-87 MG cell lysate
 Lane 2: RAW264.7 cell lysate
 Lane 3: C6 cell lysate
 Lane 4: Mouse brain tissue lysate
 Lane 5: Mouse pancreas tissue lysate (negative)
 Lane 6: Rat brain tissue lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 40 kDa

Observed band size: 40 kDa

Exposure time: 4 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 (HA601512) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4 °C overnight. Goat Anti-Rat IgG H&L - HRP Secondary Antibody (HA1023) at 1/50,000 dilution was used for 1 hour at room temperature.

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

Background References

1. Chen L, Zeng Y, Ren B, et al. ALDOC regulated the biological function and immune infiltration of gastric cancer cells. *Int J Biochem Cell Biol.* 2023 May; 158:106407.
2. Fan K, Wang J, Sun W, et al. MUC16 C-terminal binding with ALDOC disrupts the ability of ALDOC to sense glucose and promotes gallbladder carcinoma growth. *Exp Cell Res.* 2020 Sep 1;394(1):112118.

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