Aldolase C (ALDOC) Antibody (CT)

ALTERNATE NAMES: ALDOC; ALDC; Fructose-bisphosphate aldolase C; Fructose-bisphosphate aldolase C; Brain-type aldolase.

CATALOG #: 6756-100

AMOUNT: 100 µl

HOST/ISOTYPE: Rabbit IgG

IMMUNOGEN: This ALDOC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 300-333 amino acids from the C-terminal region of human ALDOC.

PURIFICATION: This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

MOLECULAR WEIGHT: ~39.42 kDa

FORM: Liquid

FORMULATION: Supplied in PBS with 0.09% (W/V) sodium azide.

SPECIES REACTIVITY: Human. Predicted cross reactivity with mouse, rat and monkey samples.

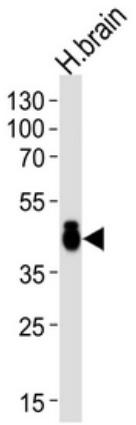
STORAGE CONDITIONS: Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

DESCRIPTION: Fructose 1, 6-bisphosphate aldolase catalyses the reversible condensation of glycerone-P and glyceraldehyde 3-phosphate into fructose 1, 6-bisphosphate. Fructose 1, 6-bisphosphate aldolase exists as three forms, the muscle-specific Aldolase A, the liver-specific aldolase B, and the brain-specific aldolase C. Aldolase A, B, and C arose from a common ancestral gene, from which aldolase B first diverged. Aldolase A is one of the most highly conserved enzymes known, with only about 2% of the residues changing per 100 million years. Aldolase B is regulated by the hormones insulin and glucagon and has been implicated in hereditary fructose intolerance disease. Aldolase C is a polypeptide that is exclusively expressed in Purkinje cells. Aldolase C-positive Purkinje cells are organized in the cerebellum as stripes or bands that run from anterior to posterior across the cerebellum and alternate with bands of Aldolase C-negative Purkinje cells.

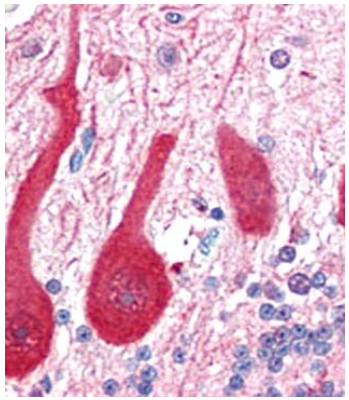
APPLICATION: Western blot: ~1:1000, IHC: ~1:10-1:50.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

FOR RESEARCH USE ONLY! Not to be used on humans.



Western blot analysis of lysate from human brain tissue lysate, using ALDOC Antibody. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 µg per lane.



Formalin-fixed and paraffin-embedded human brain cerebellum tissue reacted with ALDOC antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

RELATED PRODUCTS:

- Aldolase A, human recombinant **(Cat. No. 7359-100)**
- ALDOA Antibody (NT) **(Cat. No. 6753-100)**
- ALDOA Antibody (CT) **(Cat. No. 6754-100)**
- ALDOC Antibody (CT) (Clone 859CT9.5.3) **(Cat. No. 6755-100)**
- ALDOC Antibody (NT) **(Cat. No. 6757-100)**
- Aldolase Activity Colorimetric Assay Kit **(Cat. No. K665-100)**