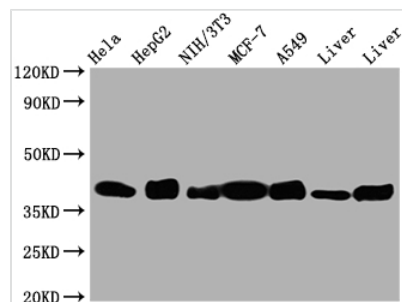




ALDOA Antibody

Product Code	CSB-RA571479A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P04075
Immunogen	A synthesized peptide derived from human Aldolase
Species Reactivity	Human, Mouse, Rat
Tested Applications	ELISA, WB, IHC, IF; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200
Relevance	Plays a key role in glycolysis and gluconeogenesis. In addition, may also function as scaffolding protein (By similarity).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Metabolism; Signal transduction
Gene Names	ALDOA
Accession NO.	7D8

Image

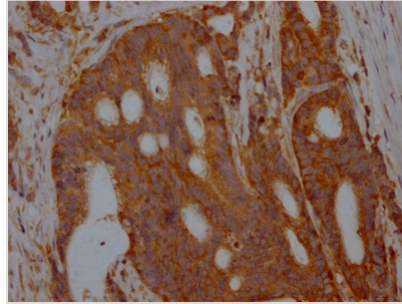


Western Blot

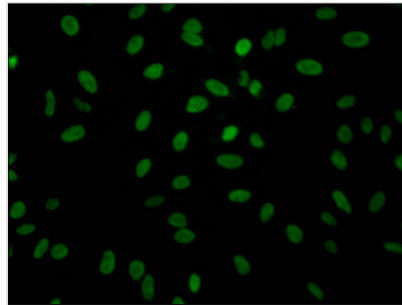
Positive WB detected in: HeLa whole cell lysate, HepG2 whole cell lysate, NIH/3T3 whole cell lysate, A549 whole cell lysate, Mouse Liver whole cell lysate, Rat Liver whole cell lysate
All lanes: Aldolase antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 40, 46 kDa
Observed band size: 40 kDa



IHC image of CSB-RA571479A0HU diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence staining of HeLa Cells with CSB-RA571479A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

ALDOA is one of the glycolytic enzymes that catalyze the reversible conversion of fructose-1, 6-bisphosphate to glyceraldehyde-3-phosphate and dihydroxyacetone phosphate. It is primarily found in the developing embryo and adult muscle and contributes to various cellular functions and biological processes related to muscle maintenance, regulation of cell shape and mobility, striated muscle contraction, actin filament organization, and ATP biosynthetic process. ALDOA deficiency probably results in myopathy and hemolytic anemia. ALDOA is among the most abundant glycolytic enzymes in all cancers. It participates in multiple cellular events necessary for cancer cell survival and proliferation. And it can organize actin filaments, affect activities of AMPK and FBP2, and regulate Wnt and p53 signaling.

The recombinant ALDOA antibody was prepared by obtaining the antibody genes, cloning the genes into a plasma vector to construct vector clone, transfecting the vector clone into a mammalian cell line for transient expression, and purifying the antibody by Affinity-chromatography. This recombinant ALDOA antibody has been verified to detect the ALDOA protein from Human, Mouse, Rat in the ELISA, WB, IHC, IF.