

ALDOA
Purified Mouse Monoclonal Antibody
Catalog # AO2616a**Specification**

ALDOA - Product Information

Application	E, WB, IHC
Primary Accession	P04075
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a
Calculated MW	39.4kDa KDa

Immunogen

Purified recombinant fragment of human ALDOA (AA: 9-145) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

ALDOA - Additional Information

Gene ID 226

Other Names

ALDA; GSD12; HEL-S-87p

Dilution

E~~ 1/10000
WB~~ 1/500 - 1/2000
IHC~~ 1/200 - 1/1000

Storage

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.

Precautions

ALDOA is for research use only and not for use in diagnostic or therapeutic procedures.

ALDOA - Protein Information

Name ALDOA ([HGNC:414](#))

Synonyms ALDA

Function

Catalyzes the reversible conversion of beta-D-fructose 1,6- bisphosphate (FBP) into two triose phosphate and plays a key role in glycolysis and gluconeogenesis (PubMed:14766013). In addition, may also function as scaffolding protein (By similarity).

Cellular Location

Cytoplasm, myofibril, sarcomere, I band {ECO:0000250|UniProtKB:P00883}. Cytoplasm, myofibril, sarcomere, M line {ECO:0000250|UniProtKB:P00883}. Note=In skeletal muscle, accumulates around the M line and within the I band, colocalizing with FBP2 on both sides of the Z line in the absence of Ca(2+) {ECO:0000250|UniProtKB:P00883}

ALDOA - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ALDOA - Images

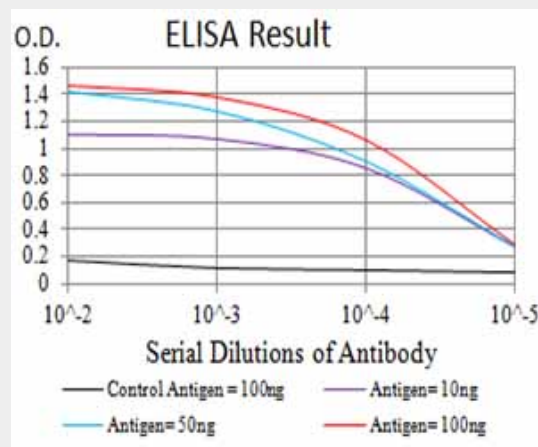


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

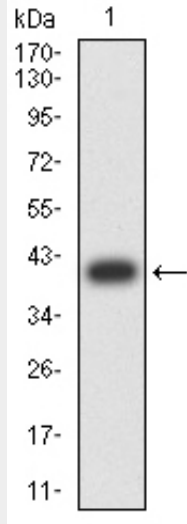


Figure 2:Western blot analysis using ALDOA mAb against human ALDOA (AA: 9-145) recombinant protein. (Expected MW is 40.7 kDa)

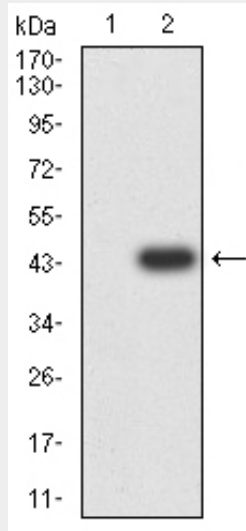


Figure 3:Western blot analysis using ALDOA mAb against HEK293 (1) and ALDOA (AA: 9-145)-hlgGfc transfected HEK293 (2) cell lysate.

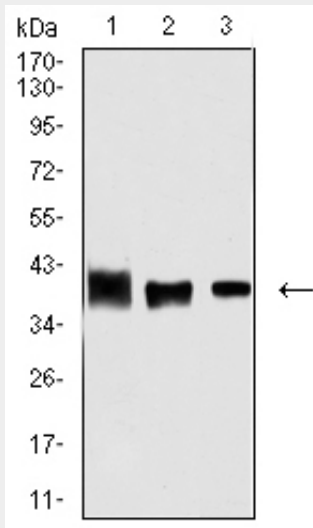


Figure 4:Western blot analysis using ALDOA mouse mAb against MCF-7 (1), Hela (2), and NIH/3T3 (3) cell lysate.

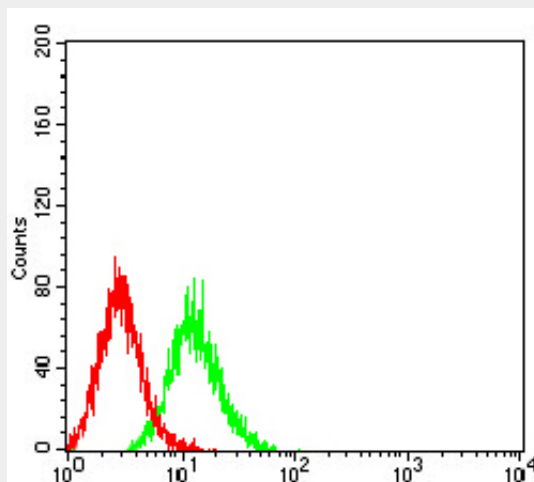


Figure 5:Flow cytometric analysis of K562 cells using ALDOA mouse mAb (green) and negative control (red).

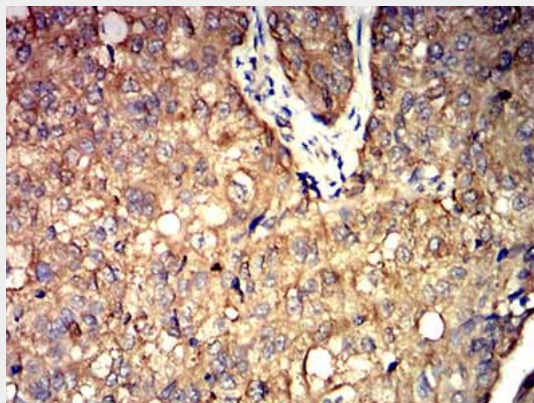


Figure 6:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using ALDOA mouse mAb with DAB staining.

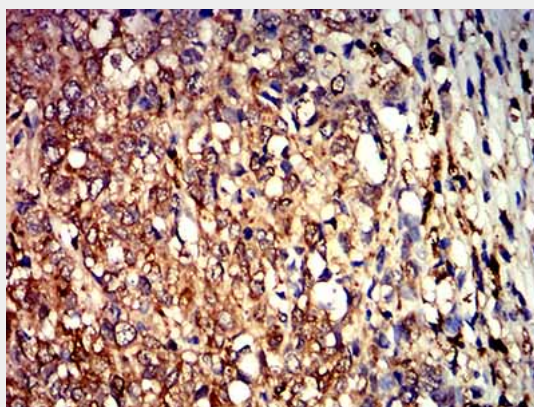


Figure 7:Immunohistochemical analysis of paraffin-embedded breast cancer tissues using ALDOA mouse mAb with DAB staining.

ALDOA - References

- 1.Cancer Lett. 2016 Apr 28;374(1):127-35.
- 2.Oncol Rep. 2014 Nov;32(5):2031-7.