

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

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**ALDOA - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>E, WB, IHC</b>      |
| Primary Accession | <a href="#">P04075</a> |
| Reactivity        | <b>Human, Mouse</b>    |
| Host              | <b>Mouse</b>           |
| Clonality         | <b>Monoclonal</b>      |
| Isotype           | <b>Mouse IgG2a</b>     |
| Calculated MW     | <b>39.4kDa KDa</b>     |

**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:<a

<http://www.uniprot.org/citations/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

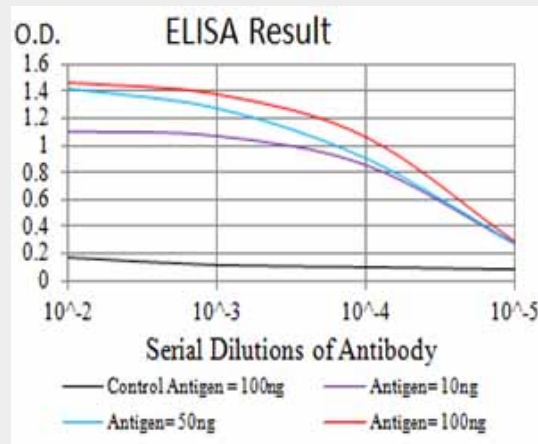


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

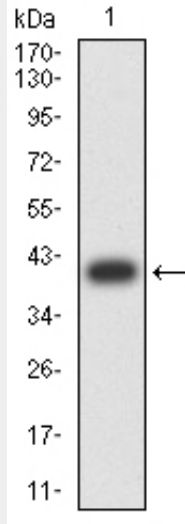


Figure 2:Western blot analysis using ALDOA mAb against human ALDOA (AA: 9-145) recombinant protein. (Expected MW is 40.7 kDa)

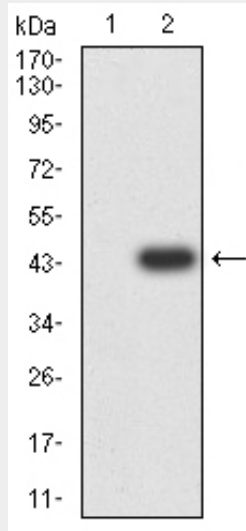


Figure 3:Western blot analysis using ALDOA mAb against HEK293 (1) and ALDOA (AA: 9-145)-hlgGfc transfected HEK293 (2) cell lysate.

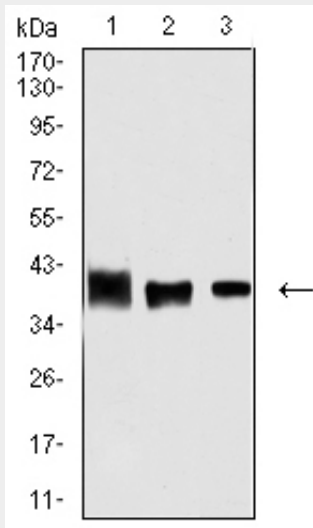


Figure 4:Western blot analysis using ALDOA mouse mAb against MCF-7 (1), Hela (2), and NIH/3T3 (3) cell lysate.

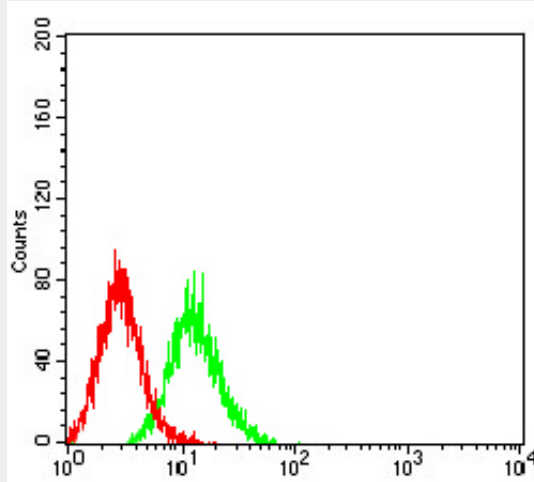


Figure 5:Flow cytometric analysis of K562 cells using ALDOA mouse mAb (green) and negative control (red).

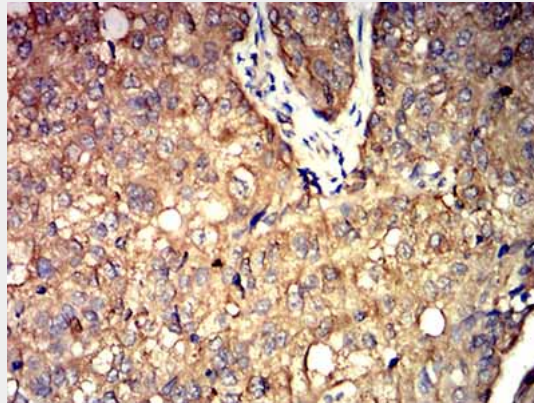


Figure 6:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using ALDOA mouse mAb with DAB staining.

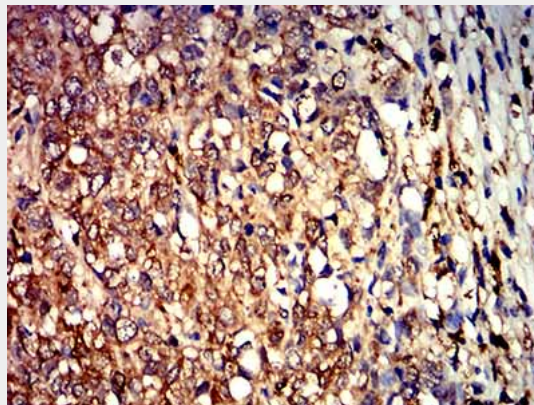


Figure 7:Immunohistochemical analysis of paraffin-embedded breast cancer tissues using ALDOA mouse mAb with DAB staining.

#### ALDOA - References

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