

# ALDOA

Purified Mouse Monoclonal Antibody  
Catalog # AO2616a

## Product Information

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<b>Application</b>	WB, IHC, ICC, E
<b>Primary Accession</b>	<a href="#">P04075</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	1C5B2
<b>Isotype</b>	Mouse IgG2a
<b>Calculated MW</b>	39420
<b>Immunogen</b>	Purified recombinant fragment of human ALDOA (AA: 9-145) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	226
<b>Other Names</b>	ALDA; GSD12; HEL-S-87p
<b>Dilution</b>	WB~~ 1/500 - 1/2000 IHC~~ 1/200 - 1/1000 ICC~~N/A E~~ 1/10000
<b>Storage</b>	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.
<b>Precautions</b>	ALDOA is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ALDOA ( <a href="#">HGNC:414</a> )
<b>Synonyms</b>	ALDA
<b>Function</b>	Catalyzes the reversible conversion of beta-D-fructose 1,6- biphosphate (FBP) into two triose phosphate and plays a key role in glycolysis and gluconeogenesis (PubMed: <a href="#">14766013</a> ). In addition, may also function as scaffolding protein (By similarity).
<b>Cellular Location</b>	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}

## References

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

## Images

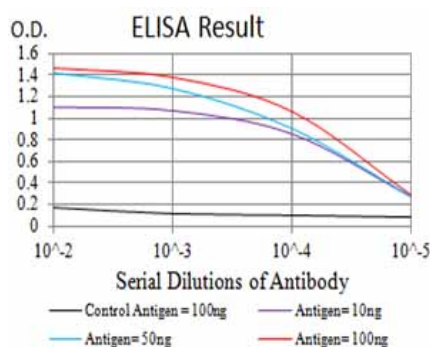


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

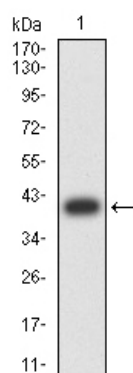


Figure 2:Western blot analysis using ALDOA mAb against human ALDOA (AA: 9-145) recombinant protein. (Expected MW is 40.7 kDa)

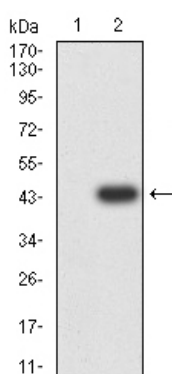


Figure 3:Western blot analysis using ALDOA mAb against HEK293 (1) and ALDOA (AA: 9-145)-hIgGFc transfected HEK293 (2) cell lysate.

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

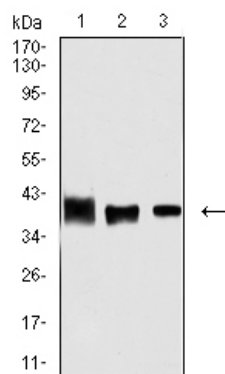


Figure 5:Flow cytometric analysis of K562 cells using ALDOA mouse mAb (green) and negative control (red).

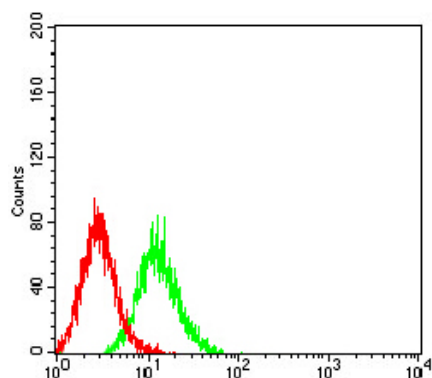


Figure 6:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using ALDOA mouse mAb with DAB staining.

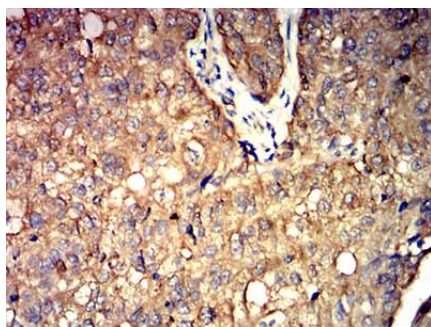
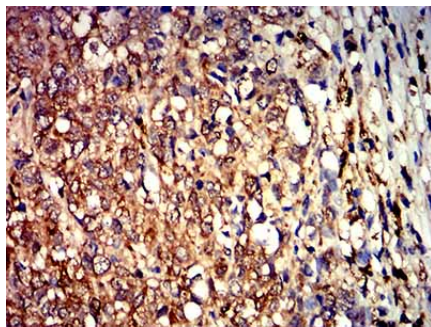


Figure 7:Immunohistochemical analysis of paraffin-embedded breast cancer tissues using ALDOA mouse mAb with DAB staining.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.