

ALDOA
Purified Mouse Monoclonal Antibody
Catalog # AO2617a**Specification**

ALDOA - Product Information

Application	E, WB, ICC
Primary Accession	P04075
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
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
ICC~~ 1/100 - 1/500

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

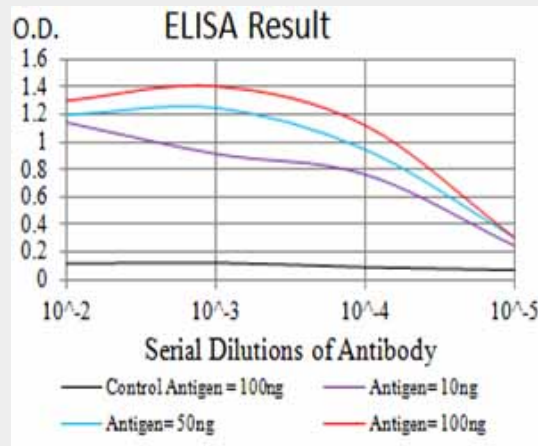


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

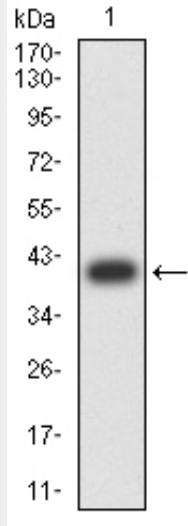


Figure 2:Western blot analysis using ALDOA mAb against human ALDOA (AA: 9-145) recombinant protein. (Expected MW is 40.7 kDa)

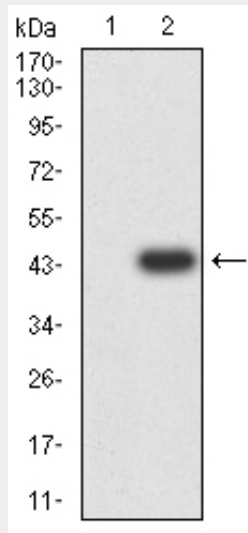


Figure 3:Western blot analysis using ALDOA mAb against HEK293 (1) and ALDOA (AA: 9-145)-hlgGfc transfected HEK293 (2) cell lysate.

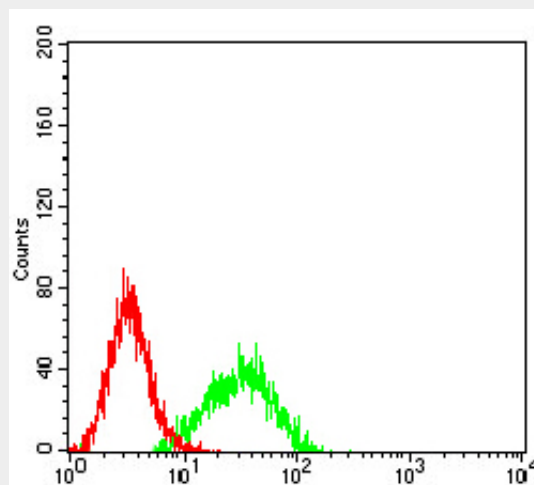


Figure 5:Flow cytometric analysis of K562 cells using ALDOA mouse mAb (green) and negative

control (red).

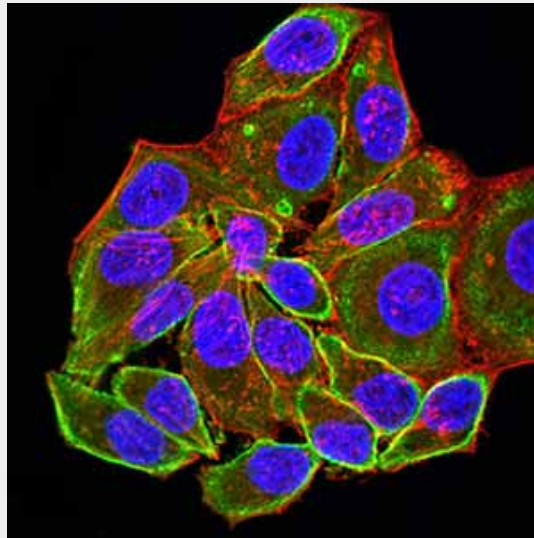


Figure 4: Immunofluorescence analysis of HeLa cells using ALDOA mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

ALDOA - References

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