

# Anti-Aldolase ALDOA Monoclonal Antibody

Catalog # ABO14599

## Product Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC, IF, ICC                                                                                                               |
| <b>Primary Accession</b> | <a href="#">P04075</a>                                                                                                         |
| <b>Host</b>              | Rabbit                                                                                                                         |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                     |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                              |
| <b>Clonality</b>         | Monoclonal                                                                                                                     |
| <b>Format</b>            | Liquid                                                                                                                         |
| <b>Description</b>       | Anti-Aldolase ALDOA Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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| <b>Gene ID</b>             | 226                                                                                                                                        |
| <b>Other Names</b>         | Fructose-bisphosphate aldolase A, 4.1.2.13, Lung cancer antigen NY-LU-1, Muscle-type aldolase, ALDOA ( <a href="#">HGNC:414</a> ), ALDA    |
| <b>Calculated MW</b>       | 39420                                                                                                                                      |
| <b>Application Details</b> | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200                                                                                     |
| <b>Source</b>              | Eukaryota                                                                                                                                  |
| <b>Contents</b>            | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                        |
| <b>Clone Names</b>         | Clone: AEAB-1                                                                                                                              |
| <b>Immunogen</b>           | A synthesized peptide derived from human Aldolase                                                                                          |
| <b>Purification</b>        | Affinity-chromatography                                                                                                                    |
| <b>Storage</b>             | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## 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- bisphosphate |

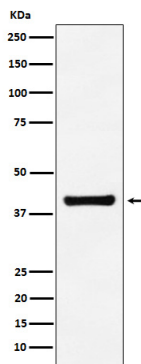
(FBP) into two triose phosphate and plays a key role in glycolysis and gluconeogenesis (PubMed:[14766013](#)). In addition, also functions as a scaffolding protein (By similarity). In response to glucose deprivation, FBP dissociates from aldolase and acts as an adapter that promotes AMP-activated protein kinase (AMPK) activity: mechanistically, associates with transient receptor potential channels TrpV (TRPV1-TRPV4), promoting inhibition of the V-ATPase complex on lysosomes and AMPK activation via the AXIN1-STK11/LKB1 axis (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}

## Images

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Western blot analysis of Aldolase expression in A549 cell lysate.

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