

KD-Validated Anti-ALDOA Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1849

Product Information

Application	WB
Primary Accession	P04075
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB4710
Calculated MW	39420
Gene Name	ALDOA
Aliases	ALDOA; Aldolase, Fructose-Bisphosphate A; Aldolase A, Fructose-Bisphosphate; Fructose-Bisphosphate Aldolase A; Lung Cancer Antigen NY-LU-1; Muscle-Type Aldolase; EC 4.1.2.13; ALDA; Epididymis Secretory Sperm Binding Protein Li 87p; Fructose-1,6-Bisphosphate Triosephosphate-Lyase; HEL-S-87p; GSD12
Immunogen	A synthesized peptide derived from human Aldolase

Additional Information

Gene ID	226
Other Names	Fructose-bisphosphate aldolase A, 4.1.2.13, Lung cancer antigen NY-LU-1, Muscle-type aldolase, ALDOA (HGNC:414), ALDA

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, 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}

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