bs-2406R **[Primary Antibody]**

Aldolase A Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 226 **SWISS:** P04075

Target: Aldolase A

Immunogen: KLH conjugated synthetic peptide derived from human Aldolase A: 261-364/364.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Research areas:Cancer //Cancer Metabolism //Metabolic signaling pathway <
Aldolase A (fructose bisphosphate aldolase) is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3 phosphate and dihydroxyacetone phosphate. Three aldolase isozymes (A, B, and C), encoded by three different genes, are differentially expressed during development. Aldolase A is found in the developing embryo and is produced in even greater amounts in adult muscle. Aldolase A expression is repressed in adult liver, kidney and intestine and similar to aldolase C levels in brain and other nervous tissue. Aldolase A deficiency has been associated with myopathy and hemolytic anemia. Alternative splicing of this gene results in multiple transcript variants which encode the same protein.
Cellular localization:Cytoplasmic
Tissue Specificity:adult liver, kidney and intestine and similar to aldolase C levels in brain and other nervous tissue.

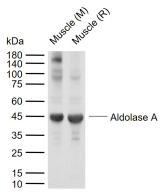
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg /test)

Reactivity: Mouse, Rat (predicted: Human, Rabbit, Horse)

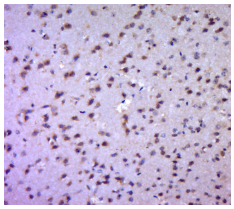
Predicted MW.: 39 kDa

Subcellular Location: Cytoplasm

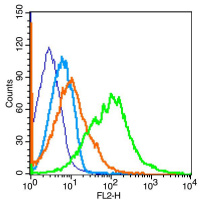
VALIDATION IMAGES



Sample: Lane 1: Mouse Muscle tissue lysates Lane 2: Rat Muscle tissue lysates Primary: Anti-Aldolase A (bs-2406R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kDa Observed band size: 42 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Aldolase A) Polyclonal Antibody, Unconjugated (bs-2406R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control(blue): Mouse spleen(fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody:Rabbit Anti-UCP-1 antibody(bs-1925R), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA. Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions). Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

SELECTED CITATIONS

- **[IF=7.25]** Yao, Chun, et al. "Role of FADD Phosphorylation in Regulating Glucose Homeostasis: from Proteomic

Discovery to Physiological Validation." Molecular & Cellular Proteomics (2013). WB ;="Mouse". 23828893

- **[IF=1.1]** Xiang Yijia. et al. Scutellarin Protects against Myocardial Ischemia–reperfusion Injury by Enhancing Aerobic Glycolysis through miR-34c-5p/ALDOA Axis. INT J APPL BASIC MED. 2024 May;14(2):85 WB ;Rat. 10.4103/ijabmr.ijabmr_415_23