

## Product datasheet for **TA321043**

### Aldolase (ALDOA) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: NIH/3T3 cell lysate IHC: 50-200 Positive control: Human cervical cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 200 amino acids of human aldolase A, fructose-bisphosphate
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	39 kDa
Gene Name:	aldolase, fructose-bisphosphate A
Database Link:	<a href="#">NP_000025</a> <a href="#">Entrez Gene 11674 Mouse</a> <a href="#">Entrez Gene 24189 Rat</a> <a href="#">Entrez Gene 226 Human</a> <a href="#">P04075</a>



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**Background:**

The protein encoded by this gene, 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 and alternative promoter usage results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 3 and 10.

**Synonyms:**

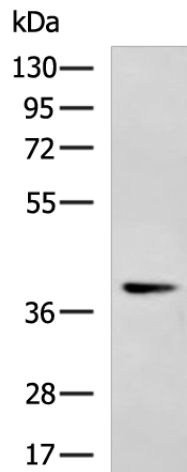
ALDA; GSD12; HEL-S-87p

**Protein Families:**

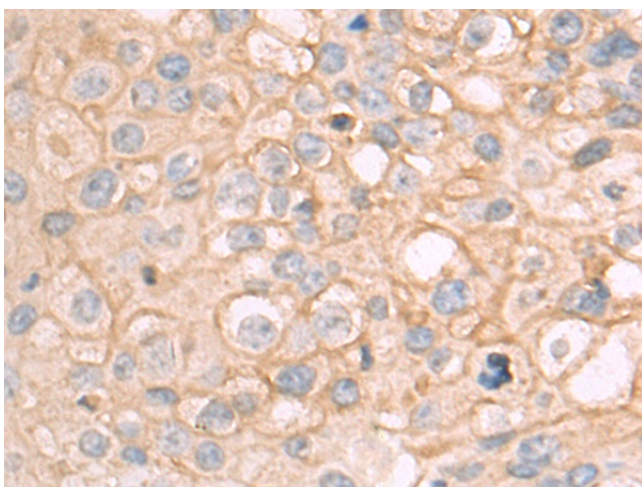
Druggable Genome

**Protein Pathways:**

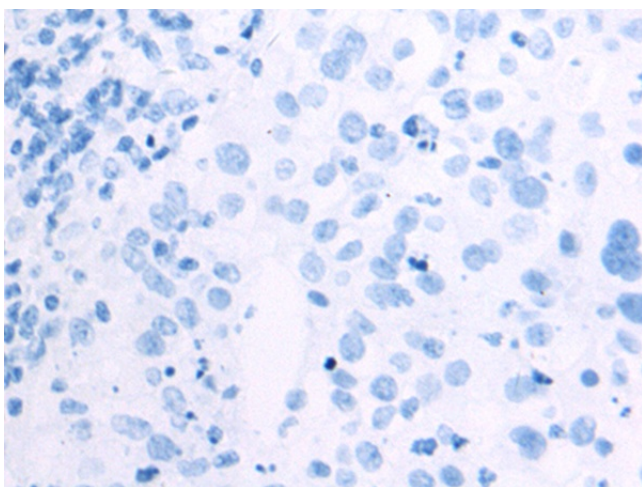
Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

**Product images:**

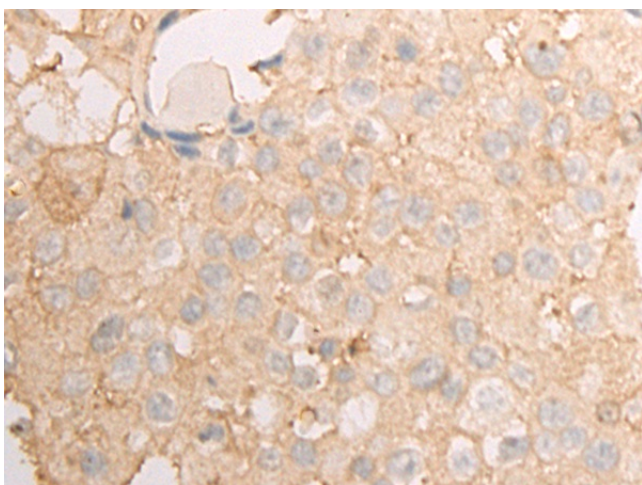
Gel: 8%SDS-PAGE  
Lysate: 40  $\mu$ g  
Lane: NIH/3T3 cell lysate  
Primary antibody: TA321043 (ALDOA Antibody) at dilution 1/550  
Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution  
Exposure time: 10 seconds



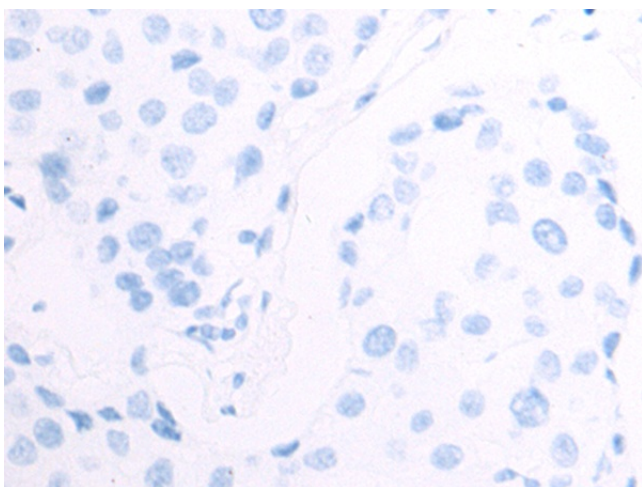
Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA321043 (ALDOA Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA321043 (ALDOA Antibody) at dilution 1/50, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA321043 (ALDOA Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA321043 (ALDOA Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: ×200)