Aldolase A Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

**Background:** Aldolase (fructose bisphosphate aldolase), a glycolytic enzyme, catalyzes the conversion of fructose 1,6-bisphosphate to 3-phosphoglyceraldehyde. This ubiquitous enzyme is present as three different isozymes: aldolase A, aldolase B, and aldolase C. Research studies suggest that aldolase A expression potentially differentiates between nonneoplastic liver diseases and hepatocarcinoma (1). Furthermore, investigators have shown that changes in aldolase B gene expression levels have been observed in certain patients with this primary tumor (2,3).

**Specificity/Sensitivity:** Aldolase A Antibody detects endogenous levels of total fructose bisphosphate aldolase A protein. This antibody may detect total fructose bisphosphate aldolase B and fructose bisphosphate aldolase C proteins.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human fructose bisphosphate aldolase A protein. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

**Recommended Antibody Dilutions:**
Western blotting 1:1000

**Applications**

<table>
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<th>Applications</th>
<th>Species Cross-Reactivity*</th>
<th>Molecular Wt.</th>
<th>Source</th>
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<tr>
<td>W Endogenous</td>
<td>H, M, R, Hm, Mk</td>
<td>40 kDa</td>
<td>Rabbit**</td>
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</table>

**Entrez-Gene ID #226**
Swiss-Prot Acc. #P04075

**IMPORTANT:** For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key:** W—Western  IP—Immunoprecipitation  IHC—Immunohistochemistry  ChIP—Chromatin Immunoprecipitation  IF—Immunofluorescence  F—Flow cytometry  E-P—ELISA-Peptide

**Species Cross-Reactivity Key:** H—human  M—mouse  R—rat  Hm—hamster  Mk—monkey  Mi—mink  C—chicken  Dm—D. melanogaster  X—Xenopus  Z—zebrafish  B—bovine

**Species**

- Dg—dog  Pg—pig  Sc—S. cerevisiae  Ce—C. elegans  Hr—horse  All—all species expected  Species enclosed in parentheses are predicted to react based on 100% homology.