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# ALDOB Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50637

## Product Information

| | |
|---|---|
| **Application** | WB |
| **Primary Accession** | P05062 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Calculated MW** | 39473 |

## Additional Information

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|---|---|
| **Gene ID** | 229 |
| **Other Names** | Fructose-bisphosphate aldolase B, Liver-type aldolase, ALDOB, ALDB |
| **Dilution** | WB~~1:1000 |
| **Format** | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol. |
| **Storage Conditions** | -20℃ |

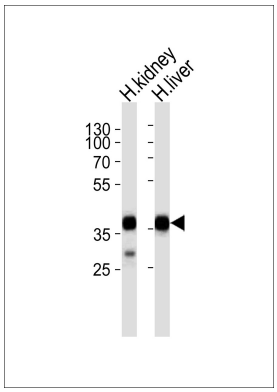
## Protein Information

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|---|---|
| **Name** | ALDOB {ECO:0000303\|PubMed:15880727, ECO:0000312\|HGNC:HGNC:417} |
| **Function** | Catalyzes the aldol cleavage of fructose 1,6-biphosphate to form two triosephosphates dihydroxyacetone phosphate and D- glyceraldehyde 3-phosphate in glycolysis as well as the reverse stereospecific aldol addition reaction in gluconeogenesis. In fructolysis, metabolizes fructose 1-phosphate derived from the phosphorylation of dietary fructose by fructokinase into dihydroxyacetone phosphate and D-glyceraldehyde (PubMed:10970798, PubMed:12205126, PubMed:20848650). Acts as an adapter independently of its enzymatic activity, exerts a tumor suppressor role by stabilizing the ternary complex with G6PD and TP53 to inhibit G6PD activity and keep oxidative pentose phosphate metabolism in check (PubMed:35122041). |
| **Cellular Location** | Cytoplasm, cytosol. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite |

## References

Paolella G.,et al.Nucleic Acids Res. 12:7401-7410(1984).
Sakakibara M.,et al.Nucleic Acids Res. 13:5055-5069(1985).
Rottmann W.H.,et al.Proc. Natl. Acad. Sci. U.S.A. 81:2738-2742(1984).
Mukai T.,et al.J. Biochem. 102:1043-1051(1987).
Tolan D.R.,et al.Mol. Biol. Med. 3:245-264(1986).

## Images




Western blot analysis of lysates from human kidney and liver tissue lysate(from left to right),using ALDOB Antibody(AP50637). AP50637 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.

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