10320 Camino Santa Fe, Suite G
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ALDOB Antibody (aa111-160)

Rabbit Polyclonal Antibody
Catalog # ALS15929

Specification

ALDOB Antibody (aa111-160) - Product Information

Application	**IHC, WB**
Primary Accession	P05062
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**39kDa KDa**

ALDOB Antibody (aa111-160) - Additional Information

Gene ID 229

Other Names
Fructose-bisphosphate aldolase B, 4.1.2.13, Liver-type aldolase, ALDOB, ALDB

Target/Specificity
ALDOB Antibody detects endogenous levels of total ALDOB protein.

Reconstitution & Storage
Store at -20°C for up to one year.

Precautions
ALDOB Antibody (aa111-160) is for research use only and not for use in diagnostic or therapeutic procedures.

ALDOB Antibody (aa111-160) - Protein Information

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

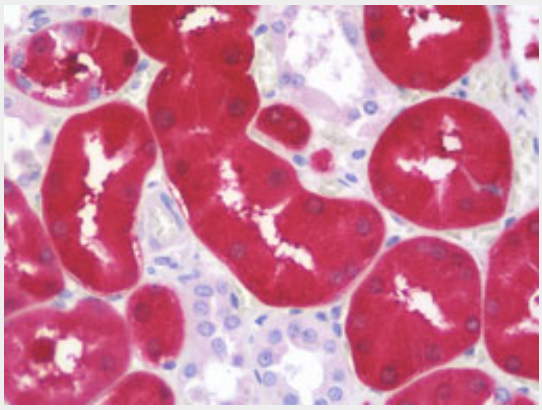
Volume
50 µl

ALDOB Antibody (aa111-160) - Protocols

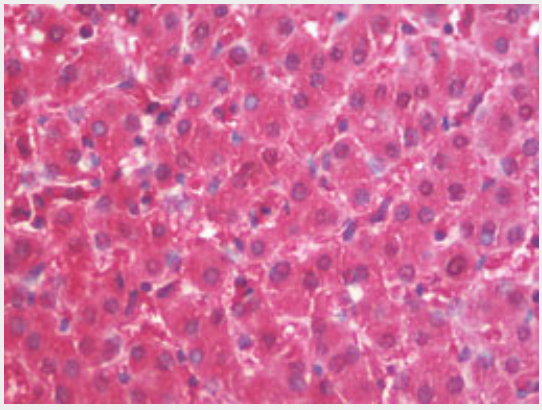
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ALDOB Antibody (aa111-160) - Images

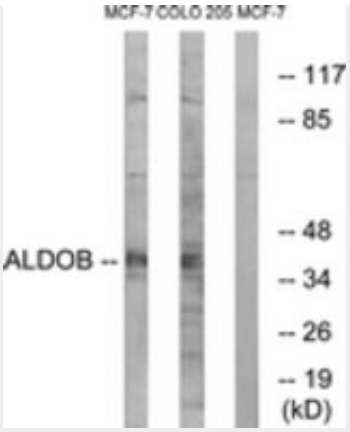


Anti-ALDOB antibody IHC staining of human kidney.



Anti-ALDOB antibody IHC staining of human liver.

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Western blot of extracts from MCF-7/HUVEC cells, using ALDOB Antibody.

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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).
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