

Anti-ALDH2 Antibody

Catalog # AP50970

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P05091
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56381

Additional Information

Gene ID	217
Other Names	ALDM; Aldehyde dehydrogenase mitochondrial; ALDH class 2; ALDH-E2; ALDHI
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human ALDH2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

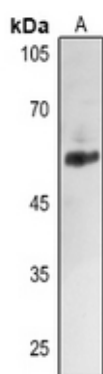
Protein Information

Name	ALDH2
Synonyms	ALDM
Function	Required for clearance of cellular formaldehyde, a cytotoxic and carcinogenic metabolite that induces DNA damage.
Cellular Location	Mitochondrion matrix.

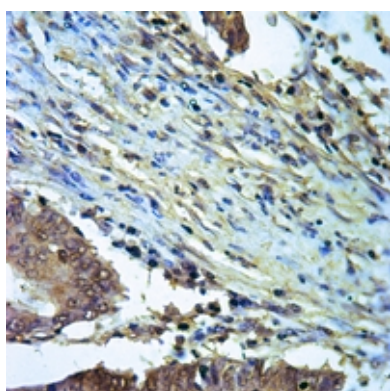
References

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Hsu L.C.,et al.Genomics 2:57-65(1988).

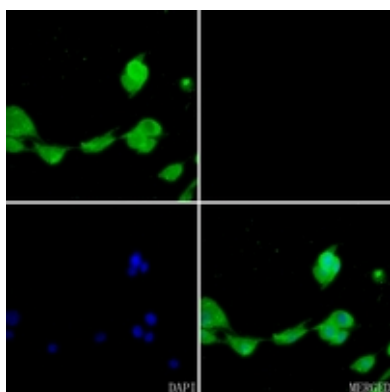
Images



Western blot analysis of ALDH2 expression in rat spleen (A) whole cell lysates. (Predicted band size: 56 kD; Observed band size: 56 kD)



Immunohistochemical analysis of ALDH2 staining in human lymph node formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of ALDH2 staining in C6 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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