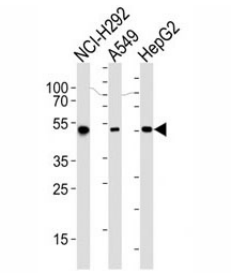
ALDH2 Antibody [clone 138CT22.3.8] (F40217)

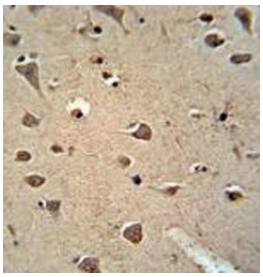
Catalog No.	Formulation	Size
F40217-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40217-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

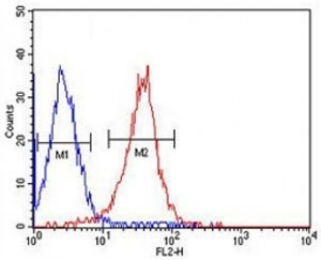
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, k
Clone Name	138CT22.3.8
Purity	Purified
UniProt	P05091
Applications	Western blot: 1:1000 IHC (Paraffin): 1:50-1:100 Flow Cytometry: 1:10-1:50 Immunofluorescence: 1:10-1:50
Limitations	This ALDH2 antibody is available for research use only.



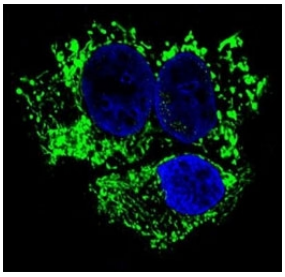
Western blot analysis of lysate from NCI-H292, A549, HepG2 cell line using ALDH2 antibody at 1:1000 for each lane. Predicted molecular weight: ~56kDa.



ALDH2 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue.



ALDH2 antibody flow cytometric analysis of HepG2 cells (red) compared to a negative control cell (blue). PE-conjugated goat-anti-mouse secondary Ab was used for the analysis.



Confocal immunofluorescent analysis of ALDH2 antibody with HepG2 cells followed by Alexa Fluor 488-conjugated goat anti-mouse lgG (green). DAPI was used as a nuclear counterstain (blue).

Description

This protein belongs to the aldehyde dehydrogenase family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of this enzyme, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Most Caucasians have two major isozymes, while approximately 50% of Orientals have only the cytosolic isozyme, missing the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among Orientals than among Caucasians could be related to the absence of the mitochondrial isozyme. This gene encodes a mitochondrial isoform, which has a low Km for acetaldehydes, and is localized in mitochondrial matrix.

Explore our ALDH2 Antibody / Mitochondrial Detoxification Enzyme Antibody page for additional information on this key regulator of aldehyde metabolism, mitochondrial function, and oxidative stress protection.

Application Notes

Titration of the ALDH2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This ALDH2 antibody was produced from a mouse immunized with ALDH2 recombinant protein.

Storage

Aliquot the ALDH2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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