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10-6529: Mouse Monoclonal Antibody to ALDH2 (Clone: 138CT22.3.8)(Discontinued)

Clonality :	Monoclonal
Clone Name :	138CT22.3.8
Application :	WB,IHC-P,FACS,IF
Reactivity :	Human
Gene :	ALDH2
Gene ID :	217
Uniprot ID :	P05091
Format :	Purified
Alternative Name :	Aldehyde dehydrogenase, mitochondrial, ALDH class 2, ALDH-E2, ALDHI, ALDH2, ALDM
Isotype :	Mouse IgG1,Kappa
Immunogen Information :	Recombinant Protein

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.

Product Info

Amount :	80 µl / 400 µl
Purification :	Protein G Chromatography
Content :	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage condition :	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles.

Application Note

WB~1:1000|| IHC-P~1:50~100|| FACS~1:10~50|| IF~1:10~50

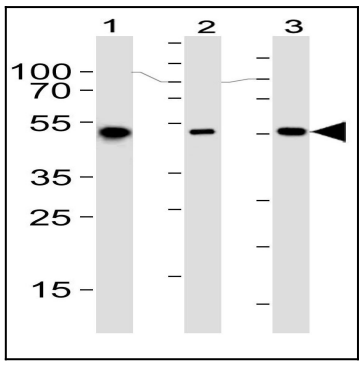

Figure 1: Western blot analysis of ALDH2 Antibody (10-6529) with lysates lane 1: NCI-H292, lane 2: A549 and lane 3: HepG2 cell line. ALDH2 Antibody was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35Î¼g per lane.

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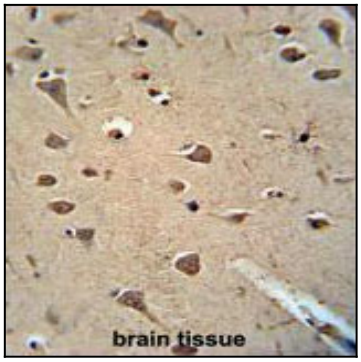

Figure 2: Immunohistochemistry analysis of ALDH2 Monoclonal Antibody (10-6529) in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ALDH2 Monoclonal Antibody for immunohistochemistry. Clinical relevance has not been evaluated.

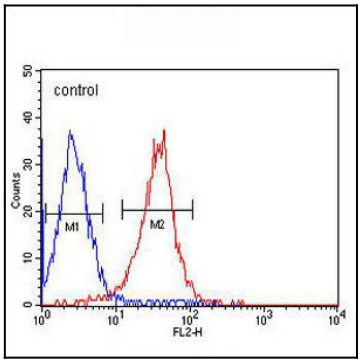

Figure 3: Flow cytometric analysis of ALDH2 Monoclonal Antibody (10-6529) in HepG2 cells (right histogram) compared to a negative control cell (left histogram). PE-conjugated goat-anti-mouse secondary antibodies were used for the analysis.

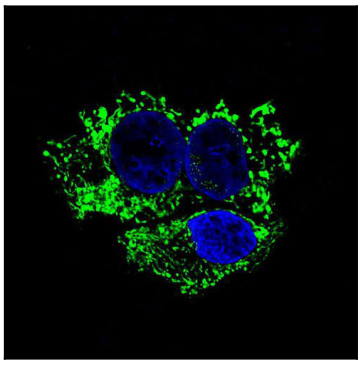

Figure 4: Confocal immunofluorescent analysis of ALDH2 Antibody (10-6529) with HepG2 cell followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG (green). DAPI was used to stain the cell nuclear (blue).