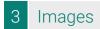
antibodies -online.com





anti-Aldehyde Dehydrogenase antibody (AA 7-128)





50 μg

Publications

Aldehyde Dehydrogenase (ALDH)



Go to Product page

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Quantity:

Target:

Purification:

Binding Specificity:	AA 7-128		
Reactivity:	Human		
Host:	Mouse		
Clonality:	Monoclonal		
Conjugate:	This Aldehyde Dehydrogenase antibody is un-conjugated		
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC)		
Product Details			
Immunogen:	Human ALDH1 aa. 7-128		
Clone:	44-ALDH		
Isotype:	lgG1		
Characteristics:	 Since applications vary, each investigator should titrate the reagent to obtain optimal results. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. Source of all serum proteins is from USDA inspected abattoirs located in the United States. Please refer to us for technical protocols. 		

chromatography.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Target Details

Target:	Aldehyde Dehydrogenase (ALDH)		
Alternative Name:	ALDH (ALDH Products)		
Background:	Aldehyde dehydrogenase (ALDH) is a ubiquitous enzyme located in nearly all mammalian		
	tissues. It catalyzes the irreversible oxidation of a range of aliphatic and aromatic aldehydes to		
	their corresponding carboxylic acids. There are multiple isoforms of ALDH which are subdivided		
	into three classes. Class I includes the cytosolic isoforms. Class II includes the mitochondrial		
	isoforms. Class III includes the microsomal, cytosolic tumor specific, and cytosolic dioxin-		
	inducible forms. At least twelve human ALDH isoforms have been identified. Mutations of many		
	of these proteins such as ALDH1, ALDH2, ALDH4, and ALDH10 have been implicated in multiple		
	human metabolic disorders and clinical abnormalities. At the amino acid level, human ALDH		
	isoforms exhibit a wide range of diversity (15% to about 80%). However, multiple protein		
	regions have been highly conserved and are important for functional activities. A well-		
	characterized member of the human ALDH family is ALDH1. It plays a major role in the		
	biosynthesis of retinoic acid from retinol (vitamin A). Retinoic acid, the biologically active form		
	of retinol, is a regulator of cellular proliferation, differentiation, and survival.		
Molecular Weight:	55 kDa		
Application Details			
Comment:	Related Products: ABIN967389, ABIN968533		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	250 μg/mL		
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.		
Preservative:	Sodium azide		
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which		
	should be handled by trained staff only.		
Storage:	-20 °C		
Storage Comment:	Store undiluted at -20°C.		

Product cited in:

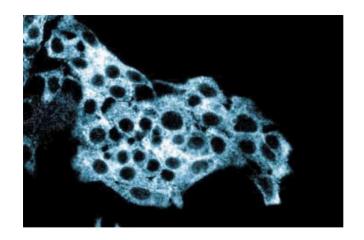
Zhou, Hanna, Roberts, Weber, Bell: "ALDH1 immunohistochemical expression and its significance in salivary adenoid cystic carcinoma." in: **Head & neck**, Vol. 35, Issue 4, pp. 575-8, (2013) (PubMed).

Greene, Bahn, Masson, Rabbitts: "The T-cell oncogenic protein HOX11 activates Aldh1 expression in NIH 3T3 cells but represses its expression in mouse spleen development." in: **Molecular and cellular biology**, Vol. 18, Issue 12, pp. 7030-7, (1998) (PubMed).

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Images



Immunofluorescence

Image 1. Immunofluorescent staining on HepG2 cells with anti-ALDH.



Western Blotting

Image 2. Western blot analysis of ALDH on A431 cell lysate.

Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of antiALDH.

Western Blotting

Image 3.