

ALDH1A1 Monoclonal antibody

Catalog Number: 65004-1-Ig

Basic Information

Catalog Number: 65004-1-Ig	GenBank Accession Number: BC001505	Purification Method: Protein G purification
Size: 150ul , 1333 µg/ml	GeneID (NCBI): 216	
Source: Mouse	Full Name: aldehyde dehydrogenase 1 family, member A1	
Isotype: IgG1	Calculated MW: 501 aa, 55 kDa	
	Observed MW: 55 kDa	

Applications

Tested Applications:
ELISA

Species Specificity:
human

Background Information

ALDH1A1 (Aldehyde dehydrogenase family 1 member A1), also named as ALDC, ALDH1 and PUMB1, belongs to the aldehyde dehydrogenase family. The ALDH1A1 gene encodes a liver cytosolic isoform of acetaldehyde dehydrogenase, an enzyme involved in the major pathway of alcohol metabolism after alcohol dehydrogenase. ALDH1A1 plays a critical role in protection against oxidative stress-induced cytotoxicity in lens epithelial cells (PMID:19296407). And it is important for multiple biological activities including drug resistance, cell differentiation, and oxidative stress response (PMID:19025616). As a novel cancer stem cell marker, ALDH1A1 can be used for tumors whose corresponding normal tissues express ALDH1 in relatively restricted or limited levels such as breast, lung, ovarian or colon cancer (PMID: 20422001).

Storage

Storage:
Store at 2-8°C.

Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Selected Validation Data