

Mouse anti-Human ALDH1A1 (Aldehyde Dehydrogenase 1A1) Monoclonal Antibody | anti-ALDH1A1 antibody

ALDH1A1 (Aldehyde Dehydrogenase 1A1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214966	Mouse	Human	Immunohistochemistry

PRODUCT SYNONYMS

ALDH1A1 (Aldehyde Dehydrogenase 1A1); Monoclonal Antibody; Acetaldehyde dehydrogenase 1; AHD2; ALDC; Aldehyde dehydrogenase 1 soluble; Aldehyde dehydrogenase 1A1; Aldehyde dehydrogenase family 1 member A1; ALDH-E1; ALDH1; ALDH1A1; epididymis luminal protein 12; epididymis luminal protein 9; epididymis secretory sperm binding protein Li 53e; HEL-S-53e; PUMB1; RALDH1; Retinal dehydrogenase 1; anti-ALDH1A1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	ALDH1A1/1382
Specificity	ALDH1A1 belongs to the ALDH enzymes, a family of evolutionarily conserved enzymes comprised of 19 isoforms that are localized in the cytoplasm, mitochondria or nucleus. ALDH1A1 is predominantly expressed in the epithelium of testis, brain, eye, liver, kidney, as well as neural and hematopoietic stem cells. Reportedly, high ALDH1A1 expression is found in solitary fibrous tumor (SFT) and hemangiopericytoma (HPC), compared to meningiomas and synovial sarcomas. In combination with CD34, ALDH1A1 may be useful for the differentiation among SFT, HPC, meningioma, and synovial sarcoma.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	501
Applicable Applications for anti-ALDH1A1 antibody	IHC (Immunohistochemistry)
Positive Control	HepG2 or A549 cells. Colon or Testicular Carcinoma.
Immunogen	Purified recombinant fragment of human ALDH1A1 (aa 315-434), expressed in HK293 Cells.
Cellular Localization	Cytoplasmic
Hu-chromosome Location	9q21.13
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with ALDH1A1 Mouse Monoclonal Antibody (ALDH1A1/1382).



Application Data
Purified ALDH1A1 Mouse Monoclonal Antibody (ALDH1A1/1382). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with ALDH1A1 Mouse Monoclonal Antibody (ALDH1A1/1382).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with ALDH1A1 Mouse Monoclonal Antibody (ALDH1A1/1382).

ADDITIONAL INFORMATION

References	Xu J, Muller S, et al. Eur J Cancer. 2012 Jul;48(11):1682-91
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NCBI AND UNIPROT INFORMATION

NCBI GI #	118495
NCBI GeneID	216
UniProt Accession #	P00352
Molecular Weight	56kDa
NCBI Official Full Name	Retinal dehydrogenase 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 1 family member A1
NCBI Official Symbol	ALDH1A1
NCBI Official Synonym Symbols	ALDC; ALDH1; HEL-9; HEL12; PUMB1; ALDH11; RALDH1; ALDH-E1; HEL-S-53e
NCBI Protein Information	retinal dehydrogenase 1
UniProt Protein Name	Retinal dehydrogenase 1
UniProt Gene Name	ALDH1A1
UniProt Synonym Gene Names	ALDC; ALDH1; PUMB1; RALDH 1; RaIDH1
UniProt Entry Name	AL1A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.