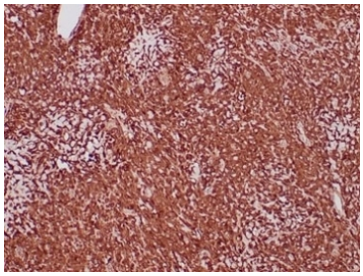
Aldehyde Dehydrogenase 1A1 Antibody ALDH1A1/4793 / ALDH1A1 Mouse Monoclonal [clone ALDH1A1/4793] (V9639)

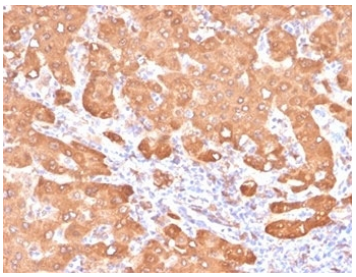
Catalog No.	Formulation	Size
V9639-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9639-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9639SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

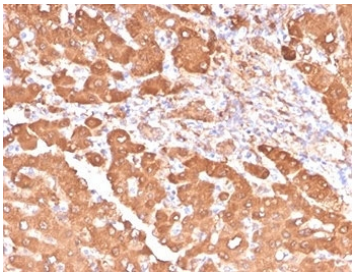
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ALDH1A1/4793
Purity	Protein A/G affinity
UniProt	P00352
Localization	Cytoplasm
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Aldehyde Dehydrogenase 1A1 Antibody ALDH1A1/4793 is available for research use only.



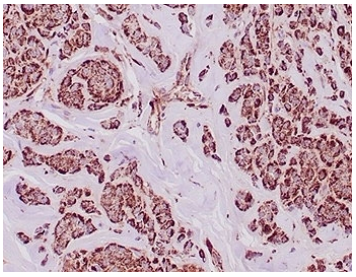
Aldehyde Dehydrogenase 1A1 Antibody ALDH1A1/4793 Sarcoma IHC. Immunohistochemistry staining of FFPE human sarcoma tissue with Aldehyde Dehydrogenase 1A1 antibody (clone ALDH1A1/4793) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



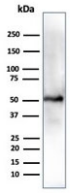
Aldehyde Dehydrogenase 1A1 Antibody ALDH1A1/4793 Colon Carcinoma IHC. Immunohistochemistry staining of FFPE human colon carcinoma tissue with Aldehyde Dehydrogenase 1A1 antibody (clone ALDH1A1/4793). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



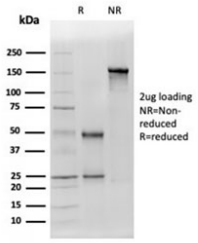
IHC staining of FFPE human colon carcinoma tissue with Aldehyde Dehydrogenase 1A1 antibody (clone ALDH1A1/4793). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



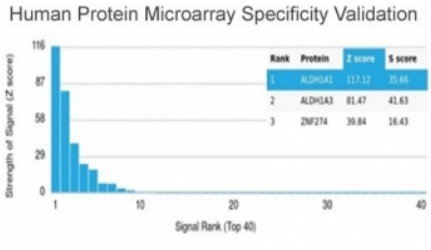
Aldehyde Dehydrogenase 1A1 Antibody Breast Carcinoma IHC. Immunohistochemistry. IHC staining of FFPE human breast carcinoma tissue with Aldehyde Dehydrogenase 1A1 antibody (clone ALDH1A1/4793) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



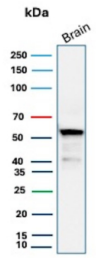
Aldehyde Dehydrogenase 1A1 Antibody ALDH1A1/4793 HepG2 Cell WB. Western blot testing of human HepG2 cell lysate using Aldehyde Dehydrogenase 1A1 antibody (clone ALDH1A1/4793). Expected molecular weight ~55 kDa.



SDS-PAGE analysis of purified, BSA-free Aldehyde Dehydrogenase 1A1 antibody (clone ALDH1A1/4793) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Aldehyde Dehydrogenase 1A1 antibody (clone ALDH1A1/4793). These results demonstrate the foremost specificity of the ALDH1A1/4793 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



Aldehyde Dehydrogenase 1A1 Antibody ALDH1A1/4793 Brain WB. Western blot testing of human brain tissue lysate using Aldehyde Dehydrogenase 1A1 antibody (clone ALDH1A1/4793). Expected molecular weight ~55 kDa.

Description

Aldehyde Dehydrogenase 1A1 Antibody ALDH1A1/4793 specifically detects ALDH1A1, an ALDH enzyme that belongs to 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.

For broader multi-application ALDH1A1 detection including IF and flow cytometry workflows, see our ALDH1A1 Antibody / Cancer Stem Cell and Retinoic Acid Metabolism Marker page.

Application Notes

Optimal dilution of the Aldehyde Dehydrogenase 1A1 Antibody ALDH1A1/4793 should be determined by the researcher.

Immunogen

Recombinant full-length human ALDH1A1 protein was used as the immunogen for the Aldehyde Dehydrogenase 1A1 antibody.

Storage

Aliquot the Aldehyde Dehydrogenase 1A1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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