

Aldh1L1

Cat.No. 278 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 250 to 269 from rat Aldh1L1 (UniProt Id: P28037)
Reactivity	Reacts with: rat (P28037). Other species not tested yet.
Specificity	Specific for Aldh1L1.
matching control	278-0P

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Aldehyde dehydrogenase family 1 member L1 (Aldh1L1), also known as 10-formyltetrahydrofolate dehydrogenase (**FDH**) is a cytosolic enzyme involved in folate metabolism. It has been shown to be involved in the regulation of cell proliferation and is downregulated in malignant human tumors and cancer cell lines.

Aldh1L1 is highly expressed in several cell-types like hepatocytes and astrocytes.

Selected References SYSY Antibodies

Sonic hedgehog expression in the postnatal brain.
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Biology open (2019) : . **WB; tested species: rat**

Selected General References

Epigenetic Silencing of ALDH1L1, a Metabolic Regulator of Cellular Proliferation, in Cancers.
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Molecular comparison of GLT1+ and ALDH1L1+ astrocytes in vivo in astroglial reporter mice.
Yang Y, Vidensky S, Jin L, Jie C, Lorenzini I, Frankl M, Rothstein JD
Glia (2011) 59(2): 200-7.

Gene expression profiling of NF-1-associated and sporadic pilocytic astrocytoma identifies aldehyde dehydrogenase 1 family member L1 (ALDH1L1) as an underexpressed candidate biomarker in aggressive subtypes.
Rodriguez FJ, Giannini C, Asmann YW, Sharma MK, Perry A, Tibbetts KM, Jenkins RB, Scheithauer BW, Anant S, Jenkins S, Eberhart CG, et al.
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A transcriptome database for astrocytes, neurons, and oligodendrocytes: a new resource for understanding brain development and function.
Cahoy JD, Emery B, Kaushal A, Foo LC, Zamanian JL, Christopherson KS, Xing Y, Lubischer JL, Krieg PA, Krupenko SA, Thompson WJ, et al.
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The folate metabolic enzyme ALDH1L1 is restricted to the midline of the early CNS, suggesting a role in human neural tube defects.
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10-formyltetrahydrofolate dehydrogenase, one of the major folate enzymes, is down-regulated in tumor tissues and possesses suppressor effects on cancer cells.
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