

34-1004: Monoclonal Antibody to Aldehyde dehydrogenase H1L1, ALDH1L1(Clone: 4A12)

Clonality :	Monoclonal
Clone Name :	4A12
Application :	WB
Reactivity :	Human
Gene :	ALDH1L1
Gene ID :	10840
Uniprot ID :	O75891
Format :	Purified
Alternative Name :	Aldehyde dehydrogenase family 1 member L1
Isotype :	Mouse, IgG1
Immunogen Information :	Amino acids 1- 401 of human ALDH1L1 expressed in and purified from E. coli.

Product Info

Amount :	50 µl / 100 µl
Content :	Antibody is supplied as an aliquot of 1 mg/ml of affinity purified antibody or concentrated tissue culture supernatant.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:5,000-1:10,000. IF/IHC: 1:1,000-1:2,000.

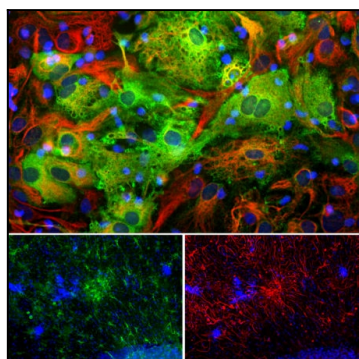


Figure-1: Immunofluorescent analysis of mixed cortical neuron-glia cell culture from an E20 rat stained with mouse mAb to aldehyde dehydrogenase family 1 member L1 (ALDH1L1), (34-1004), dilution 1:1,000 in green, and costained with chicken pAb to vimentin,(34-1126), dilution 1:5,000 in red. The blue is DAPI staining of nuclear DNA. (34-1004) antibody produces strong cytoplasmic staining of astrocytic glial cells, while the(34-1126) antibody labels the intermediate filament cytoskeleton in fibroblasts and other glial cells. Some cells, presumably developing astrocytes, are stained by both ALDH1L1 and vimentin and so appear yellow.

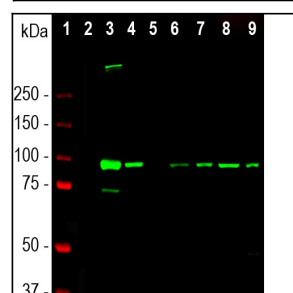


Figure-2: Western blot analysis of rat and mouse tissue lysates using mouse mAb to ALDH1L1,(34-1004), dilution 1:5,000 in green: [1] protein standard (red), rat tissue lysates: [2] heart, [3] liver, [4] kidney, [5] lung, [6] brain, and [7] spinal cord; Also mouse tissue lysates: [8] brain, and [9] spinal cord. The band at 100kDa corresponds to ALDH1L1 protein. In line with published work, ALDH1L1 is a major protein of liver and CNS tissue.