

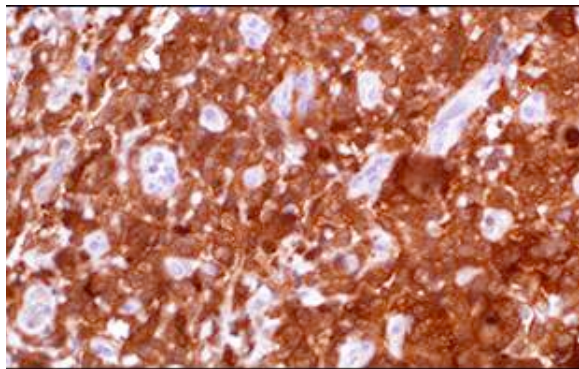
ALDH1A1 (Clone 44) Mouse Monoclonal Antibody

Specificity:	Human. Others-not tested
Immunogen:	Human ALDH1 aa 7-128
Ig Class:	IgG1
Storage:	Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* For formalin-fixed tissues, optimal results are obtained by pretreating tissues with heat-induced epitope retrieval using high pH target retrieval solution. *Detection methods:* Polymer anti-mouse/rabbit IgG detection system. *Working dilution:* 1:100; *Positive Control:* Solitary fibrous tumor. *Cellular Localization:* Cytoplasmic and nuclear. *Intended Use:* In vitro diagnosis (IVD).

Description: 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. Recently, it has been reported that high ALDH1A1 mRNA expression was seen in solitary fibrous tumor (SFT) and hemangiopericytoma (HPC), compared to meningiomas and synovial sarcomas. Anti-ALDH1A1 can be combined with anti-CD34 to aid in the differentiation between SFT, HPC, meningioma, and synovial sarcoma.

Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



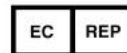
References:

1. Marcato P, et al. *Cell Cycle*. 2011;10:1378–1384.
2. Bouvier C, et al. *Acta Neuropathologica Communications*. 2013; 1:1-10.
3. Chute JP, et al. *Proc Natl Acad Sci USA*. 2006; 103:11707-11712.

Formalin-fixed, paraffin-embedded human solitary fibrous tumor stained with anti-ALDH1A1 monoclonal antibody using peroxidase-conjugate and DAB chromogen. Note the cytoplasmic/nuclear staining of tumor cells

Cat. #Z2245 (1.0 ml)

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