ALDH1A1 (Clone ZM77)

Mouse Monoclonal Antibody

Specificity: Human. Others-not tested

Immunogen: Purified recombinant fragment of human ALDH1A1 (aa 315-434)

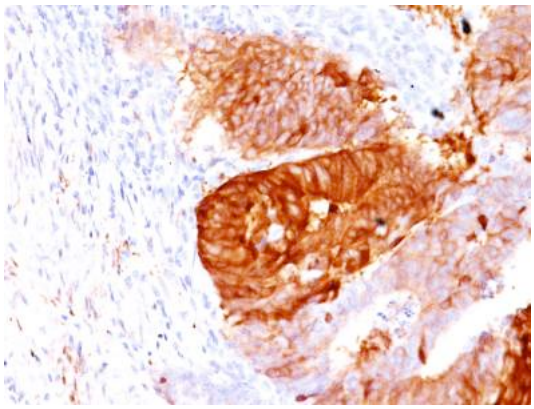
Ig Class: IgG1

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 Ig detection system. *Working dilution*: 1:100-200; *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.



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

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.

Cat. #Z2387 (1.0 ml)

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