Smooth muscle alpha-actin


REACTIVITY (according to manufacturer):
- It reacts with the alpha-smooth muscle isoform of actin by ELISA. It does not react with actin from fibroblasts (beta- and gamma-cytoplasmic), striated muscle (alpha-sarcomeric) and myocardium (alpha-myocardial).
- This antibody reacts with smooth muscle cells of vessels and different parenchymes without exception, but with different intensity, according to the amount of alpha-smooth muscle actin present in smooth muscle cells, myoepithelial cells, pericytes, and some stromal cells in the intestine, testis, breast and ovary. The antibody also reacts with myofibroblasts in benign and reactive fibroblastic lesions and perisinusoidal cells of normal and diseased human liver.

STAINING PROCEDURES (according to manufacturer):
- This antibody can be used in formalin-fixed, paraffin embedded tissue sections. To improve the staining pattern, antigen retrieval with heated 10 mM citrate buffer, pH 6.0 or DAKO Target Retrieval Solution can be used. A variety of immunoenzymatic techniques including anti-alkaline phosphatase and LSAB methods can be used.
- The suggested dilution for LSAB methods (paraffin-embedded or acetone-fixed cell smears) is 1/25 to 1/50. However, titration of the first antibody is recommended.

WORKING DILUTION: 1/200. No pretreatment.

METHOD: LSAB 2-PO. 30 min. RT.

CELLS/TISSUES STAINED (canine unless specified):
- Stomach: Smooth muscle cells from the gastric wall and vessels. Also the lamina propria has a ring of positive cells (myoepithelium?) surrounding glands.

REFERENCES: