

Mouse Monoclonal anti-Smooth Muscle Actin, Clone 1A4

60-0001; 60-0001-7
61-0001; 61-0001-2; 61-0001-5
Isotype
Concentration
6 mL; 7 mL predilute Antibody, Ready-To-Use
1 mL; 0.2 mL; 0.5 mL Concentrate Antibody
IgG2a
See container label

Intended Use

For In Vitro Diagnostic Use.

This product is used to qualitatively detect smooth muscle actin in normal and neoplastic formalin fixed paraffin embedded (FFPE) tissue sections in immunohistochemical (IHC) detection methodology. Interpretation must be made within the context of the patient's clinical history and other diagnostic test by a qualified pathologist.

Description

This antibody recognizes actin isotypes alpha of smooth muscle and those cells with myofibroblast differentiation. It labels smooth muscular cells, myofibroblasts, and myoepithelial cells. Using this antibody with other myogenic markers such as muscle actin, desmin and vimentin will be very helpful for differentiation of tumor from muscle origin. It is a useful marker for the identification for soft tissue tumors with muscle differentiation, i.e. leiomyomas and leiomyosarcomas. It is a useful marker for distinction benign proliferative lesions of the breast from neoplastic proliferations.

Reagent provided

This antibody is diluted in 10 mM phosphate buffered saline (PBS), pH 7.2 containing 1% bovine serum albumin (BSA) and 0.09% sodium azide (NaN_3) as antimicrobial agent.

Precautions

For professional users.

Proper handling of this product as with any product derived from biological sources according to local and applicable regulations.

Sodium azide is a toxic chemical. The concentration in this product is not classified as hazardous, however, the build-up of NaN_3 may react with lead and copper plumbing to form highly explosive metal azides. Flush the disposed reagent with large volume of water to prevent azide build-up.

Usage

Dilution

60-0001; 60-0001-7: Ready-To-Use

61-0001; 61-0001-2; 61-0001-5: Dilute 1:50 to 1:100 before use when using Acu-Stain™ detection system. Optimum dilution factor may vary depending on the specimen and preparation process and should be determined by each individual investigator.

Staining procedure

Incubate this antibody with tissue section for 30-60 minutes at room temperature. Follow the instructions from the selected detection system.

Positive control tissue Gastrointestinal Track

Epitope retrieval Not Required

Staining pattern Cytoplasm

Storage Store at 2-8°C.

References

1. Skalli O, et al. J Cell Biol. 1986 Dec;103(6 Pt 2):2787-96.

2. Roholl PJ, et al. Hum Pathol. 1990 Dec;21(12):1269-74.
3. Raymond W, et al. Pathology. 1991 Oct;23(4):291-7.

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