Product datasheet MON-RTU1256



Mouse anti-Smoothelin, clone R4A

Clone no. R4A

MONOSAN Ready To Use

Product name Mouse anti-Smoothelin, clone R4A

Host Mouse

Applications IHC-P

Species reactivity human

Conjugate -

Immunogen Unknown or proprietery to MONOSAN and/or its suppliers

lsotype lgG1

Clonality Monoclonal

Clone number R4A

Size 7 ml

Concentration n/a

Format -

Storage buffer Tris Buffer, pH 7.3-7.7, containing 1% BSA and <0.1% Sodium Azide

Storage until expiry date 2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

Smoothelin is a constituent of the smooth muscle cell cytoskeleton protein exclusively found in differentiated smooth muscle cells (SMC). Cells with SMC-like characteristics, such as myofibroblasts and myoepithelial cells, as well as skeletal and cardiac muscle do not contain smoothelin.1,2 To distinguish bladder muscularis mucosae (MM) from muscularis propria (MP) muscle bundles is crucial for accurate staging of bladder carcinoma. Strong smoothelin expression is nearly exclusively observed in muscularis propria. Therefore, the staining pattern of MP (strongly positive) and MM (negative or weakly positive) makes this technique an attractive diagnostic tool for the sometimes difficult task of staging bladder urothelial carcinoma, such as in transurethral resection specimens of urinary bladder tumors.3-5 Differentiating between smooth muscle tumors and other mesenchymal neoplasms of the GI tract can be challenging in small biopsies. Antismoothelin immunostaining can be helpful in differentiating benign (+) from malignant smooth muscle tumors (-), and other mimics(-).

References

- 1. van der Loop FT, et al. | Cell Biol. 1996; 134:401-11
- 2 Maake C, et al. | Urol. 2006; 175:1152-7
- 3. Paner GP, et al. Am J Surg Pathol. 2010; 34:792-9
- 4. Council L, et al. Mod Pathol. 2009; 22:639-50
- 5. Coco DP, et al. Am J Surg Pathol. 2009; 33:1795-801

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