Anti-Human Alpha-Smooth Muscle Actin-141Pr

Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3141017D

Package size and concentration: 25 µg, 0.5 mg/mL

Storage: Store at 4 °C. Do not freeze.

Reactivity: Human

Clone: 1A4

Isotype: Mouse IgG2a

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC paraffin, IMC frozen

Technical Information

**Application:** The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry™ (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) and frozen tissue sections.

**Quality control:** Each lot of conjugated antibody is quality control-tested by Imaging Mass Cytometry on tissue sections.

**Recommended concentration:** For optimal performance it is recommended that the antibody be titrated for the desired application. Suggested initial dilution range:
- IMC frozen: 1:50 to 1:200
- IMC paraffin: 1:100 to 1:400

**Description**

Alpha smooth muscle actin is a 42 kDa cytoskeletal protein expressed in smooth muscle cells of blood vessels, myofibroblasts, and myoepithelial cells. It also is found in tumors of smooth muscle and myoepithelial origin.

**References**


Human testis (FFPE) stained with 141Pr-anti-αSMA (1A4) at a dilution of 1:200 (green pseudocolor) and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Scale bar size = 100 µm.

Human frozen testis stained with 141Pr-anti-αSMA (1A4) at a dilution of 1:400 (green pseudocolor) and iridium DNA intercalator (blue pseudocolor). Tissue section was fixed in 4% paraformaldehyde for 30 minutes at 4 °C. Scale bar size = 100 µm.

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