

Anti-Collagen Type I (Polyclonal)-169Tm

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog number: 3169023D

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

Clone: Poly

Isotype: Goat polyclonal

Pathologist-verified on: Human FFPE, Human Frozen

Fluidigm tested on: Human FFPE, Human Frozen, Mouse FFPE

Reported reactivity: Human, Mouse

Formulation: Antibody stabilizer with 0.05% sodium azide

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

Application: IMC paraffin, IMC frozen

Technical Information

Description: Collagen type I is a fibrillar-forming, extracellular matrix protein composed of 2 alpha 1 chains and 1 alpha 2 chain in a triple helix. It is the predominant form of collagen in the human body. It forms the fibrils of tendon, ligaments, and bones, and it plays a role in scar tissue formation. Mutations in this gene are associated with osteogenesis imperfecta types I–IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome classical type, Caffey disease and idiopathic osteoporosis.

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) tissue sections, 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-Paraffin: 1:150 to 1:600

IMC-Frozen: 1:200 to 1:800

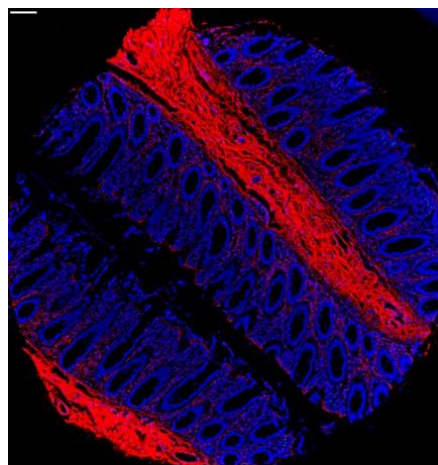
References

Chang, Q. et al. "Staining of frozen and formalin-fixed, paraffin-embedded tissues with metal-labeled antibodies for Imaging Mass Cytometry analysis." *Current Protocols in Cytometry* 82 (2017): 12.47.1–12.47.8.

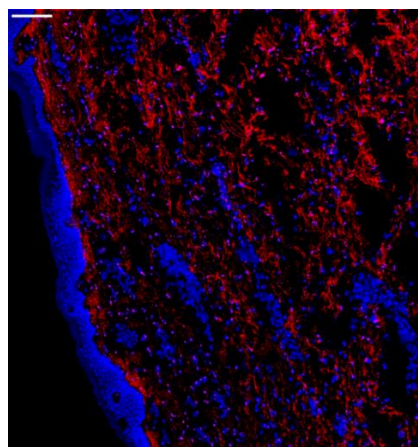
Giesen, C. et al. "Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry." *Nature Methods* 11 (2014): 417–22.

Safety

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to fluidigm.com/sds and search for the SDS using either the product name or the part number.



Human normal colon (FFPE) stained with 169Tm-anti-collagen I (poly) at a dilution of 1:300 (red 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 colon stained with 169Tm-anti-collagen I (poly) at a dilution of 1:500 (red 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.

For technical support visit techsupport.fluidigm.com. | For general support visit fluidigm.com/support.

For Research Use Only. Not for use in diagnostic procedures.

Information in this publication is subject to change without notice. **Limited Use Label License:** The purchase of this Fluidigm Instrument and/or Consumable product conveys to the purchaser the limited, nontransferable right to use with only Fluidigm Consumables and/or Instruments respectively except as approved in writing by Fluidigm. **Patent and license information:** fluidigm.com/legal/notices. **Trademarks:** Fluidigm, the Fluidigm logo, Hyperion, Imaging Mass Cytometry, and IMC are trademarks and/or registered trademarks of Fluidigm Corporation in the United States and/or other countries. All other trademarks are the sole property of their respective owners. © 2020 Fluidigm Corporation. All rights reserved. 24-Apr-2020