

Anti-Cytokeratin 7-164Dy

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3164028D

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

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

Reactivity: Rat, Mouse, Human, Bovine, Canine, Hamster

Clone: RCK105

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

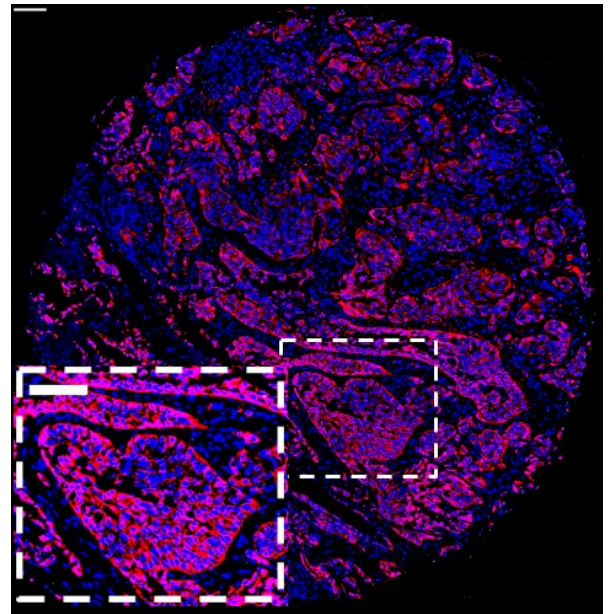
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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: 1:25 to 1:100

Description

Cytokeratins are proteins that are involved in the cytoskeleton. Cytokeratin 7 (CK7) is a 54 kDa type II (or basic) keratin containing three coiled-coil domains. Cytokeratin 7 is found in both columnar and glandular epithelium of the lung, cervix, breast, and bile ducts and in the collecting ducts in the kidney as well as mesothelium. Cytokeratin 7 has been shown to interact with the EGF receptor and heat shock protein 70 kD1A. The coordinated expression of this keratin with cytokeratin 20 is commonly used as a diagnostic marker for a variety of carcinomas.



Human bladder urothelial carcinoma (FFPE) stained with 164Dy-anti-cytokeratin 7 (RCK105) at a dilution of 1:50 (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.

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.

For technical support visit <http://techsupport.fluidigm.com>. | For general support visit www.fluidigm.com/support.

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

Information in this publication is subject to change without notice. **Safety data sheet information:** www.fluidigm.com/sds. **Patent and license information:** www.fluidigm.com/legalnotices. **Limited Use Label License:** The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased consumable or reagent only with Fluidigm Instruments and Systems. **EU's WEEE directive information:** www.fluidigm.com/compliance. Fluidigm, the Fluidigm logo, Hyperion, Imaging Mass Cytometry, and IMC are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. © 2017 Fluidigm Corporation. All rights reserved. 10/2017