

Anti-Human Keratin 8/18-174Yb

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3174022D

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

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

Reactivity: Human, Monkey

Clone: C51

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

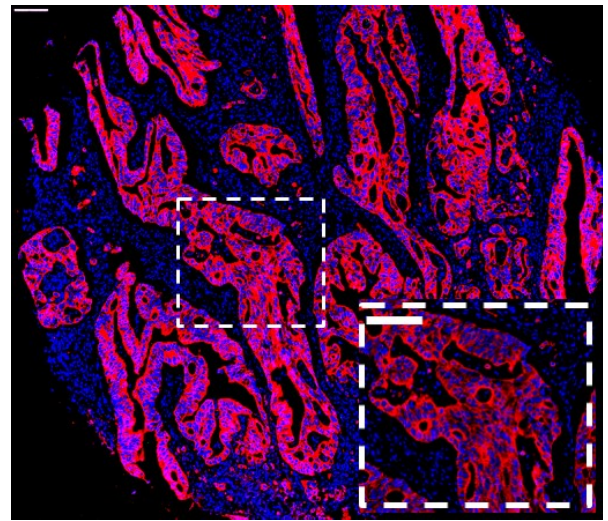
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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

Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Cytokeratin 8 belongs to the type B (basic) subfamily of high-molecular-weight keratins and exists in combination with cytokeratin 18 (type A; acidic subfamily of low-molecular-weight keratins). Keratin isoforms are useful biomarkers for tissue- and differentiation-specific study. Mutations in keratin genes are associated with skin disorders, liver and pancreatic diseases, and inflammatory intestinal diseases. The C51 monoclonal antibody detects endogenous levels of total keratins 8 and 18 and does not cross-react with other keratins.



Human colon adenocarcinoma (FFPE) stained with 174Yb-anti-keratin 8/18 (C51) 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.

This product contains antibodies manufactured by and sold under license from CST™ and licensees thereof.

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. All other trademarks are the sole property of their respective owners. © 2017 Fluidigm Corporation. All rights reserved. 10/2017