

Anti-Pan-Cytokeratin (AE1/AE3)-148Nd

Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3148022D

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

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

Reactivity: Human, Dog, Primate, Rat

Clone: AE1/AE3

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC frozen and IMC FFPE

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 FFPE: 1:50 to 1:200

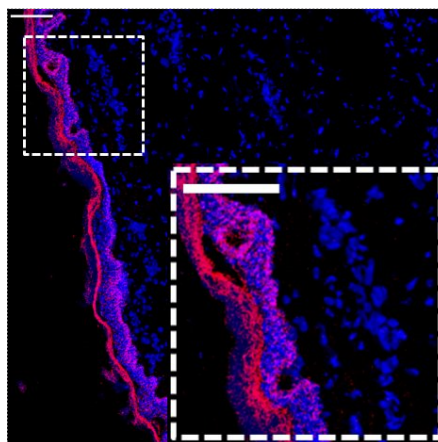
Description

AE1/AE3 is a broad-spectrum anti-pan-cytokeratin antibody cocktail, which differentiates epithelial tumors from non-epithelial tumors. AE1 immunoreacts with an antigenic determinant present on most of the subfamily A cytokeratins, including cytokeratins with molecular weights of 56.5, 50, 48, and 40 kDa. Antibody AE3 reacts with an antigenic determinant shared by the subfamily B cytokeratins including cytokeratins with molecular weights of 64, 59, 58, 56, and 52 kDa. This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

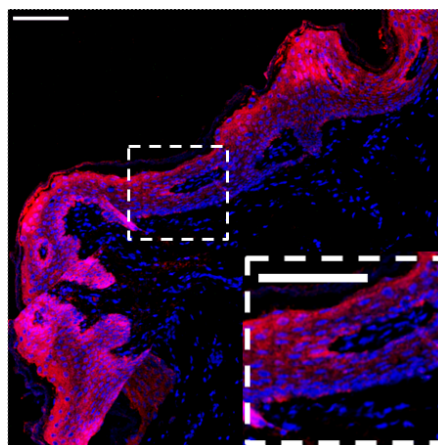
References

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.



Human frozen skin stained with 148Nd-anti-pan-cytokeratin (AE1/AE3) at a dilution of 1:100 (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.



Human skin (FFPE) stained with 148Nd-anti-pan-cytokeratin (AE1/AE3) at a dilution of 1:200 (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.

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