

Anti-EGFR-142Nd

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3142013D

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

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

Reactivity: Human, Mouse, Monkey

Clone: D38B1

Isotype: Rabbit IgG

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

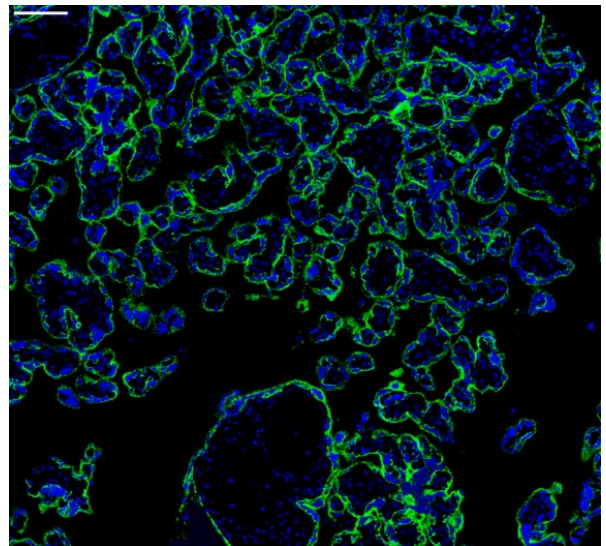
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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

Epidermal growth factor receptor (EGFR), also known as ErbB-1 and HER1 in humans, is a transmembrane glycoprotein that is a member of the protein kinase superfamily for cell growth and differentiation regulation. EGFR binds to epidermal growth factor and transforming growth factor α (TGF α). Ligand binding induces receptor dimerization and tyrosine autophosphorylation, initiating the MAPK, Akt and JNK signal transduction pathways towards DNA synthesis and cell proliferation. EGFR is expressed or highly expressed in a variety of human tumors of epithelial origin.



Human placenta (FFPE) stained with 142Nd-anti-EGFR (D38B1) at a dilution of 1:50 (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.

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.

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