

# Anti-pTyrosine (P-Tyr-100)-144Nd

## Pathologist-Verified Clone for Imaging Mass Cytometry™

**Catalog number:** 3144024D

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

**Clone:** P-Tyr-100

**Isotype:** Mouse IgG1

**Pathologist-verified on:** Human FFPE

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

**Reported reactivity:** Rat, Mouse, Human, All

**Formulation:** Antibody stabilizer with 0.05% sodium azide

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

**Application:** IMC paraffin

## Technical Information

**Description:** An essential mechanism of cellular signal transduction is the phosphorylation of proteins at tyrosine, threonine, and serine residues. An increase in total cellular phosphotyrosine levels indicates a shift in the balance of tyrosine protein kinases and phosphatases. Constitutively high total phosphotyrosine levels can be indicative of a dysregulated kinase, as in the case of the oncogenic BCR-ABL fusion protein.

**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

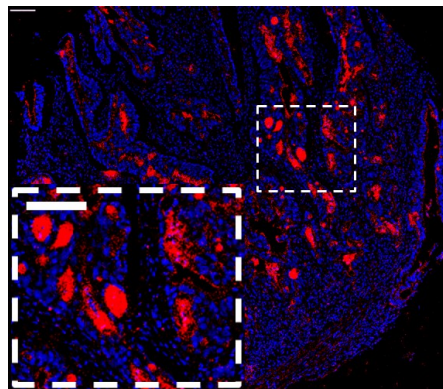
## References

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](http://fluidigm.com/sds) and search for the SDS using either the product name or the part number.



Human colon adenocarcinoma (FFPE) stained with 144Nd-anti-phospho-tyrosine (P-Tyr-100) 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.

**For technical support visit [techsupport.fluidigm.com](http://techsupport.fluidigm.com). | For general support visit [fluidigm.com/support](http://fluidigm.com/support).**

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