

Anti-Human Syk-149Sm

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3149024D

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

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

Reactivity: Human

Clone: 4D10.2

Isotype: Mouse IgG2a

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

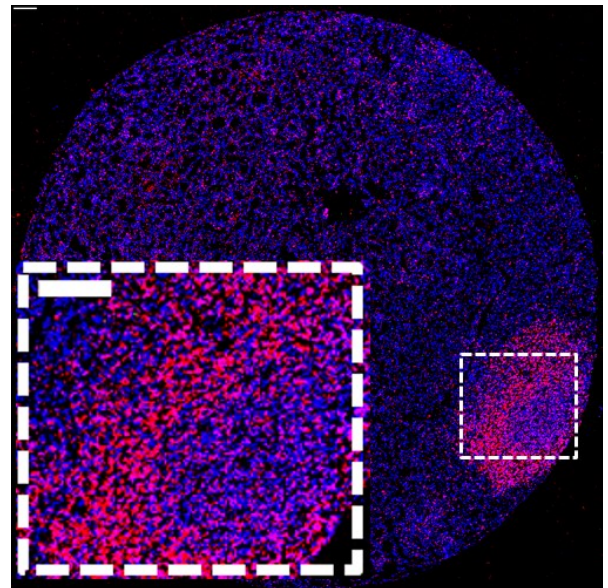
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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

Syk is a cytoplasmic 72 kDa nonreceptor tyrosine kinase that plays an important role in intracellular signal transduction in hematopoietic cells. Syk is widely expressed in hematopoietic cells, including B lymphocytes, immature (CD4, CD8 double-negative and CD8 double-positive) thymocytes, myeloid cells, epithelial cell lines and normal breast tissue. The Syk kinase couples the activated immunoreceptors to downstream signaling events that mediate cellular proliferation, differentiation and phagocytosis.



Human spleen (FFPE) stained with 149Sm-anti-Syk (4D10.2) 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.

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