

Anti-Human CD276/B7-H3-173Yb

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3173014D

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

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

Reactivity: Human

Clone: Polyclonal

Isotype: Rabbit Not Specified

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

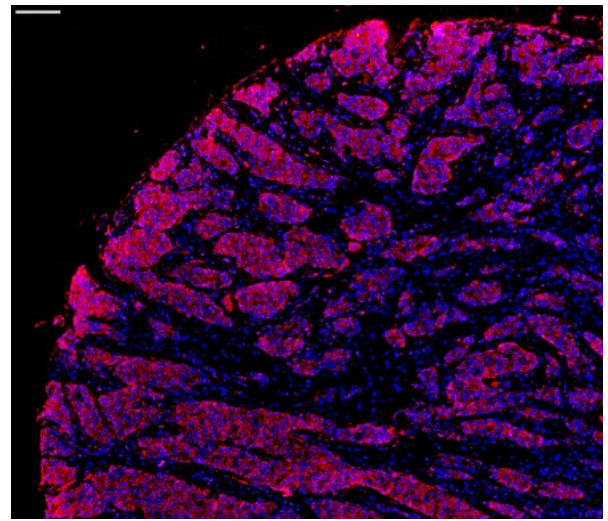
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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

B7-H3 is a type I transmembrane protein belonging to the B7 family of cell surface ligands that regulate T cell activation and immune responses. Its expression can be found on antigen-presenting cells such as dendritic cells and macrophages, activated T cells and natural killer cells. B7-H3 is expressed in a few normal tissues, including placenta and prostate; in several cancer types, including prostate, breast, colon, lung and gastric cancers; and in endothelial cells from tumor-associated vasculature. It has been reported that B7-H3 acts as a negative regulator of T cell response by inhibiting T cell proliferation.



Human breast carcinoma (FFPE) stained with 173Yb-anti-CD276/B7-H3 (poly) at a dilution of 1:25 (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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