

Anti-Human B7-H4-166Er

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3166030D

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

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

Reactivity: Human

Clone: H74

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

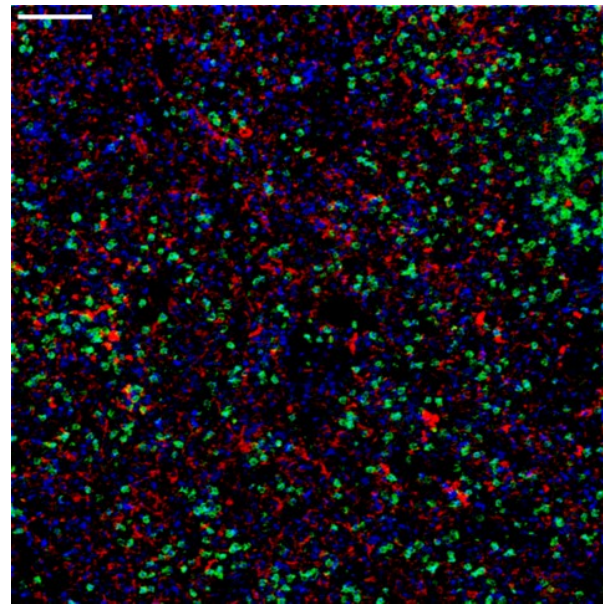
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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-H4, also known as VTCN1, is a type I transmembrane protein and member of the B7 family. B7-H4 is a costimulatory protein reported to function as a negative regulator of T cell-mediated immunity. B7-H4 is expressed on activated T cells, B cells, monocytes and dendritic cells. Aberrant expression has been associated with cancers of the lung, breast and ovary in humans. B7-H4 could be a useful prognostic marker in renal cell carcinoma.



Human spleen (FFPE) stained with 166Er-anti-B7-H4 (H74) at a dilution of 1:50 (red pseudocolor), 170Er-anti-CD3 (poly) (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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