

Anti-CD86 (IT2.2)-156Gd

Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3156035D

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

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

Reactivity: Human, African Green, Baboon, Capuchin Monkey, Common Marmoset, Cotton-topped Tamarin, Chimpanzee, Cynomolgus, Rhesus

Clone: IT2.2

Isotype: Mouse IgG2b

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC frozen

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 frozen 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 frozen: 1:25 to 1:100

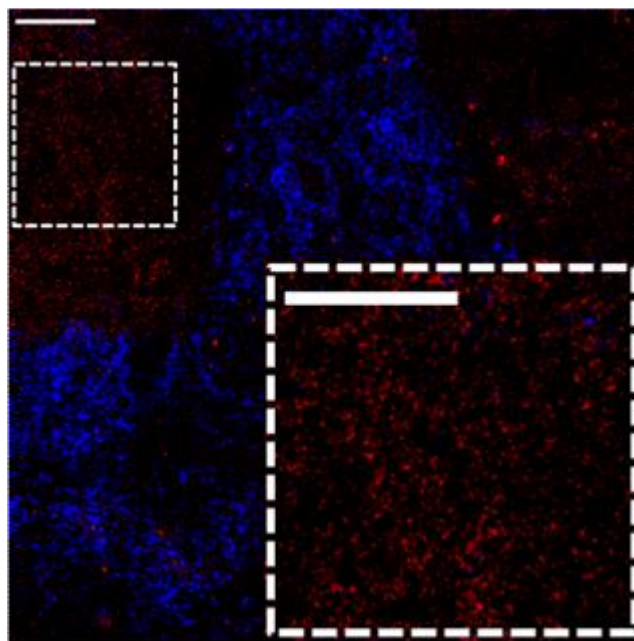
Description

CD86 (B7.2) is an 80 kDa member of the B7 family of proteins, which are all transmembrane GPI-linked proteins characterized by extracellular IgV and IgC domains related to the variable and constant Ig domains. All B7 ligands are expressed by antigen-presenting cells (APC), including dendritic cells, macrophages, and B cells where they play a critical role in regulation of the immune response. While CD86 can bind to the immune-inhibitory receptor CTLA-4, it binds with higher affinity to the immune-stimulatory CD28. CD86 expression on antigen-presenting cells is increased upon activation.

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.



Human frozen tonsil stained with 156Gd-anti-CD86 (IT2.2) at a dilution of 1:50 (red pseudocolor) and iridium DNA intercalator (blue pseudocolor). Tissue section was fixed in 4% paraformaldehyde for 30 minutes at 4 °C. Scale bar size = 100 µm.

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