

Anti-Human FoxP3-155Gd

Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3155016D

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

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

Reactivity: Human

Clone: 236A/E7

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC paraffin, 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 formalin-fixed, paraffin-embedded (FFPE) and 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 paraffin: 1:25 to 1:100

IMC frozen: 1:50 to 1:200

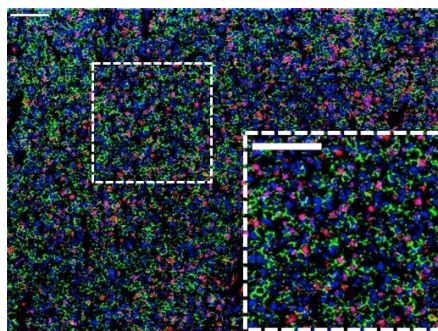
Description

Foxp3, a member of the Fox protein family of transcriptional regulators, is a master regulator of the regulatory T (Treg) CD4+ cell subset. CD4+CD25+Foxp3+ Tregs play a suppressive role within the immune system, and loss-of-function mutations of Foxp3 in the scurfy mouse lead to devastating widespread lesions. Foxp3 contributes to maintaining the suppressive phenotype of Tregs by acting as both a transcriptional activator and a repressor, including by increasing the expression of CD25 and CTLA-4 and by reducing expression of IL-7Ra and IL-17. Some of these effects are due to its binding to the proinflammatory Th17 master regulator ROR-γt.

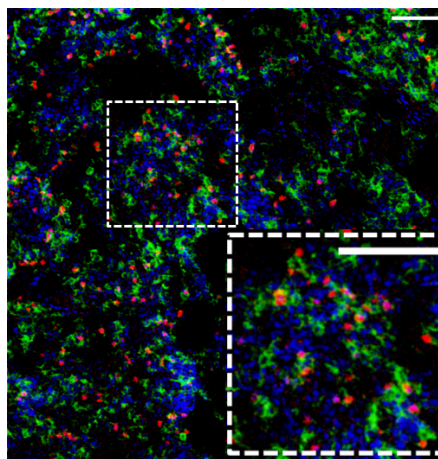
References

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 adult T cell lymphoma (FFPE) stained with 155Gd-anti-FoxP3 (236A/E7) at a dilution of 1:50 (red pseudocolor), 156Gd-anti-CD4 (EPR6855) (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.



Human frozen tonsil stained with 155Gd-anti-FoxP3 (236A/E7) at a dilution of 1:100 (red pseudocolor), 156Gd-anti-CD4 (RPA-T4) (green 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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