

## Anti-CD196/CCR6 (G034E3)-163Dy

### Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3163030D

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

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

Reactivity: Human, African Green, Baboon, Cynomolgus, Rhesus

Clone: G034E3

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

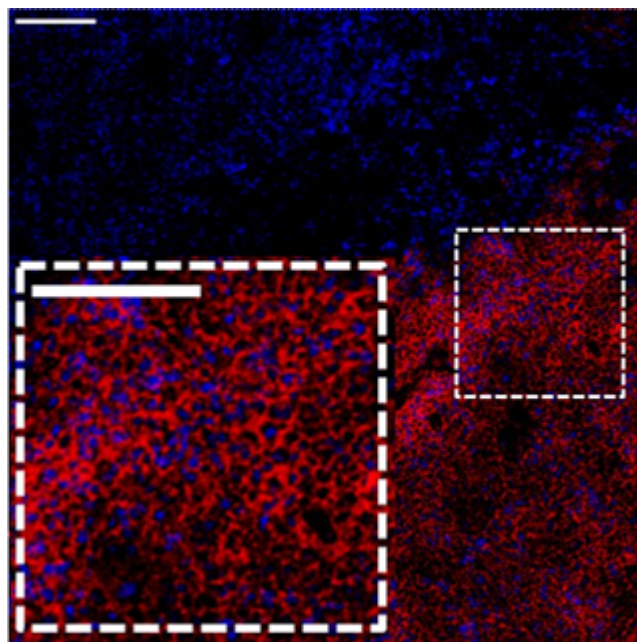
### Description

CD196, also known as CC-chemokine receptor type 6 (CCR6), is expressed on immature dendritic cells, B lymphocytes, and memory T cells. CCR6-positive cells and CCR6 ligand CCL20 have been detected in numerous organs, especially the secondary lymphoid organ. CD196 can mediate the arrest of T cells and has been reported to be highly expressed on T cells resident in both normal and psoriatic skin. CCR6 and/or CCL20 have also been implicated in the pathogenesis of various inflammatory autoimmune diseases, playing a role in the recruitment of Th17 cells.

### 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 lymph node stained with 163Dy-anti-CD196 (G034E3) 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.

**For technical support visit [techsupport.fluidigm.com](https://techsupport.fluidigm.com). | For general support visit [fluidigm.com/support](https://fluidigm.com/support).**

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