

# Anti-Human CD196/CCR6-163Dy

## Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3163029D

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

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

Reactivity: Human

Clone: Polyclonal

Isotype: Rabbit IgG

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

## Technical Information

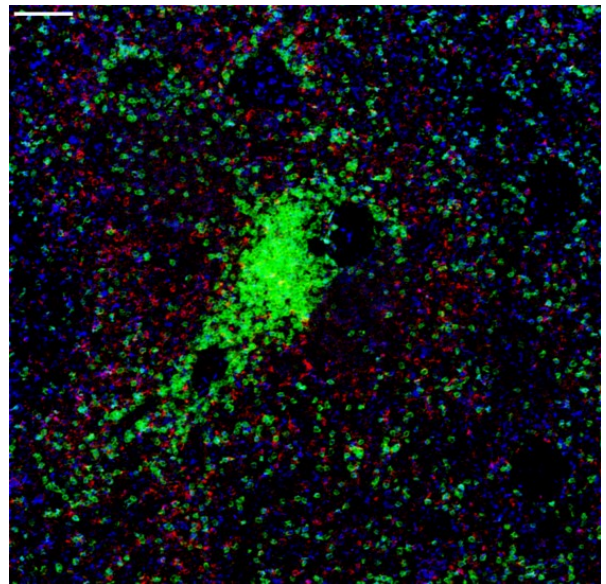
**Application:** The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

**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

CCR6, also known as CD196, is a seven-transmembrane G protein-coupled receptor that belongs to the family of beta chemokine receptors. It is expressed on immature dendritic cells, B lymphocytes, memory T cells, monocytes, macrophages and neutrophils. CCR6 positive cells and its ligand CCL20 have been detected in numerous organs, especially the secondary lymphoid organ. In humans, CCR6 can function to mediate arrest of T cells on dermal endothelial cells. CCR6 and/or CCL20 have been implicated in the pathogenesis of rheumatoid arthritis and inflammatory bowel disease.



Human spleen (FFPE) stained with 163Dy-anti-CD196 (poly) 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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