

# Anti-Human/Mouse BCL-2-146Nd

## Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3146019D

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

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

Reactivity: Human, Mouse

Clone: EPR17509

Isotype: Rabbit IgG

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

## Technical Information

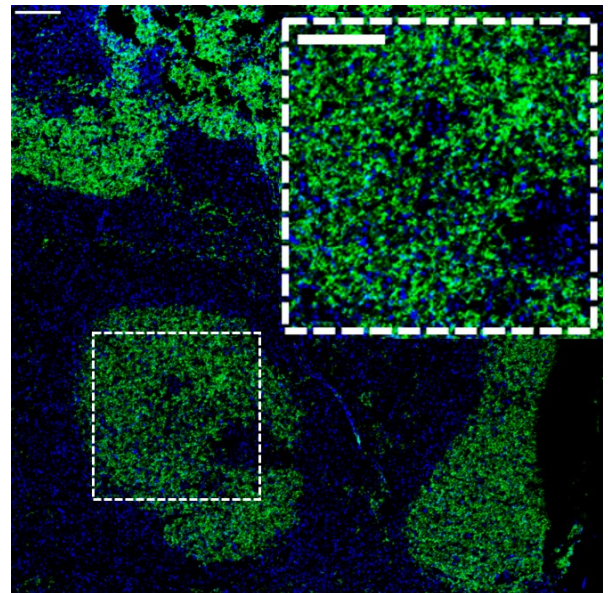
**Application:** The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

**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: 1:50 to 1:200

## Description

The BCL-2 family proteins are key regulators of apoptosis and autophagy. The founding member BCL-2, which possesses four conserved BCL-2 homology domains (BH1–4), suppresses apoptosis through its interaction with and sequestration of pro-apoptotic proteins, such as Bax and Bak. Bax and Bak can oligomerize into proteolipid pores and permeabilize the outer mitochondrial membrane, resulting in the release of cytochrome c and other intermembrane factors into the cytosol to initiate downstream apoptotic events. The ratio between the anti-apoptotic and pro-apoptotic BCL-2 family members determines the sensitivity to apoptotic stimuli.



Human follicular lymphoma (FFPE) stained with 146Nd-anti-Bcl-2 (EPR17509) at a dilution of 1:100 (green pseudocolor) and 176Yb-anti-histone H3 (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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