

# Anti-Human CD73-158Gd

## Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3158031D

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

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

Reactivity: Human

Clone: EPR6115

Isotype: Rabbit IgG

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

## Technical Information

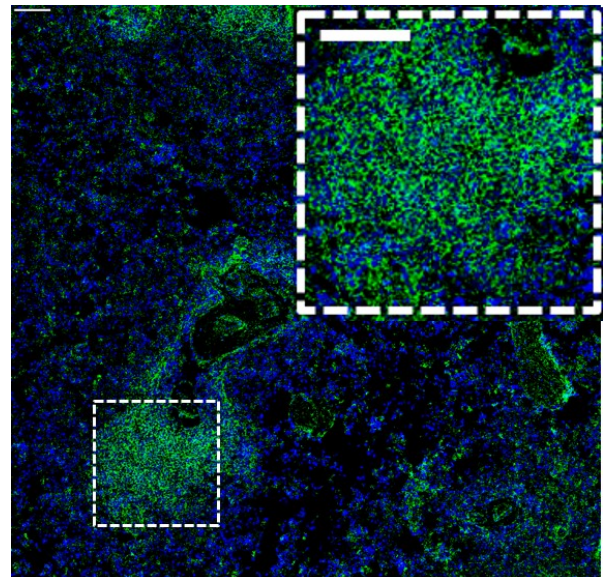
**Application:** The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

**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

CD73, also known as ecto-5'-nucleotidase, is a 70 kDa glycoposphatidylinositol (GPI)-linked 5'-nucleotidase. CD73 is expressed on bone marrow-derived multipotent mesenchymal stem cells (MSCs) and is one of the 3 positive markers for identifying MSCs. CD73 is expressed on subsets of follicular dendritic cells, epithelial cells, endothelial cells and T and B lymphocytes, where its expression increases during lymphocyte maturation. CD73 catalyzes the dephosphorylation of adenosine monophosphate (AMP), converting it to adenosine. There is also evidence that CD73 can mediate costimulatory signals in T cell activation and adhesion of lymphocytes to endothelium.



Human spleen (FFPE) stained with 158Gd-anti-CD73 (EPR6115) at a dilution of 1:50 (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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