

# Anti-Granzyme B (GB11)-167Er

## Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3167023D

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

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

Reactivity: Human, Mouse, Cross-Reactivity: Rat

Clone: GB11

Isotype: Mouse IgG1

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: 1:50 to 1:200

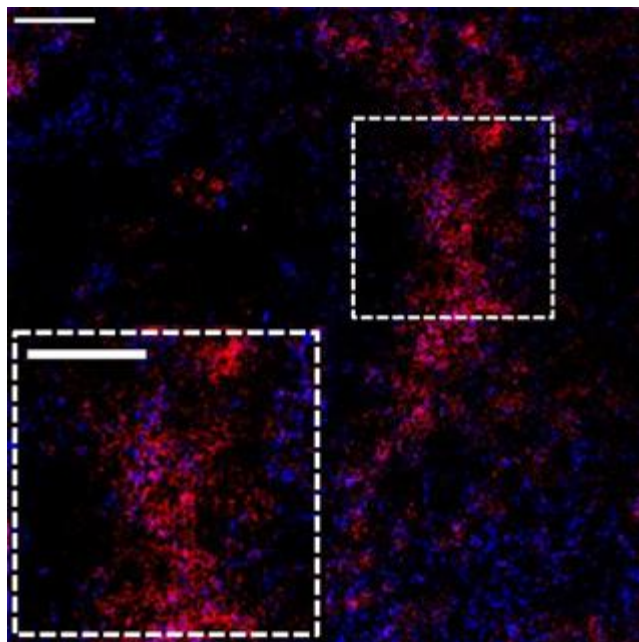
## Description

Granzyme B, also known as granzyme-2, serine protease B, CCP1, Asp-ase, and CTLA-1, is a 32 kDa serine protease. It is abundantly stored in the granules of cytotoxic T lymphocytes (CTL) and natural killer cells. A low level of expression has been reported in granulocytes, B cells, and activated dendritic cells. The protein is crucial for the rapid induction of target cell apoptosis by CTL in cell-mediated immune response.

## 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 spleen stained with 167Er-anti-Granzyme B (GB11) at a dilution of 1:100 (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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