

## Anti-CD38 (HIT2)-141Pr

### Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3141020D

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

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

Reactivity: Human, Chimpanzee, Horse

Clone: HIT2

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

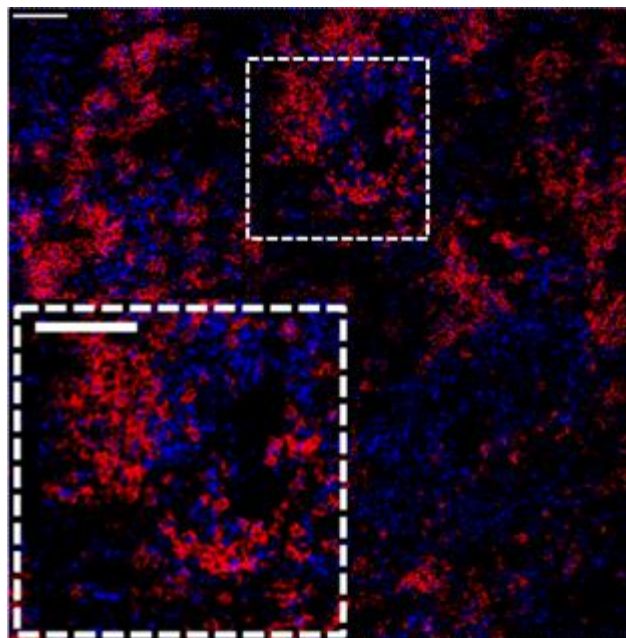
### Description

CD38, also known as T10, is a transmembrane glycoprotein. It is expressed at variable levels across most human hematopoietic cells and in other tissues (brain, muscle, kidney). It is expressed at the highest levels on plasma cells (memory B cells) as well as on activated T and B 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 spleen stained with 141Pr-anti-CD38 (HIT2) 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).**

**For Research Use Only. Not for use in diagnostic procedures.**

This product contains antibodies manufactured by and sold under license from BioLegend® and licensees thereof.

Information in this publication is subject to change without notice. **Safety data sheet information:** [fluidigm.com/sds](https://fluidigm.com/sds). **Patent and license information:** [fluidigm.com/legal/notices](https://fluidigm.com/legal/notices). **Limited Use Label License:** The purchase of this Fluidigm Instrument and/or Consumable product conveys to the purchaser the limited, nontransferable right to use with only Fluidigm Consumables and/or Instruments respectively except as approved in writing by Fluidigm. **Trademarks:** Fluidigm, the Fluidigm logo, Hyperion, Imaging Mass Cytometry, and IMC are trademarks and/or registered trademarks of Fluidigm Corporation in the United States and/or other countries. All other trademarks are the sole property of their respective owners. © 2019 Fluidigm Corporation. All rights reserved. 11/2019