

# Anti-CD98 (Polyclonal)-173Yb

## Pathologist-Verified Clone for Imaging Mass Cytometry™

**Catalog number:** 3173018D

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

**Clone:** poly

**Isotype:** Rabbit IgG

**Pathologist-verified on:** Human FFPE

**Fluidigm tested on:** Human FFPE, Mouse FFPE

**Reported reactivity:** Human, Mouse

**Formulation:** Antibody stabilizer with 0.05% sodium azide

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

**Application:** IMC paraffin

## Technical Information

**Description:** CD98 is a 125 kDa disulfide-linked heterodimer protein composed of a 45 kDa light chain and a 80 kDa heavy chain. CD98 is expressed broadly on peripheral blood lymphocytes and monocytes and weakly on granulocytes. CD98 expression has also been reported in all tissues tested with highest levels detected in kidney, placenta, and testis and weakest level in thymus. There is substantial evidence that CD98 acts as a potential amino acid transporter (neutral and dibasic amino acids) and that it is involved in lymphocyte activation and integrin signaling.

**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 1:100

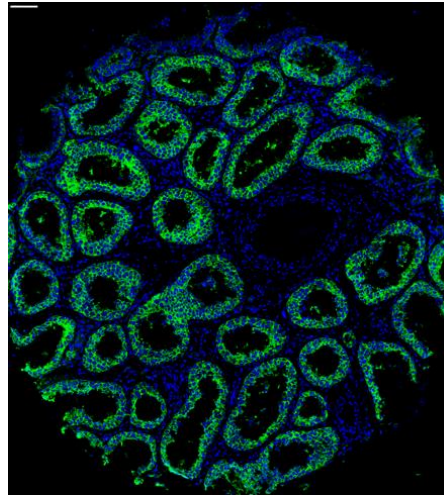
## References

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.

## Safety

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to [fluidigm.com/sds](http://fluidigm.com/sds) and search for the SDS using either the product name or the part number.



Human testis (FFPE) stained with 173Yb-anti-CD98 (Polyclonal) at a dilution of 1:50 (green pseudocolor) and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH9. Scale bar size = 100 µm.

**For technical support visit [techsupport.fluidigm.com](http://techsupport.fluidigm.com). | For general support visit [fluidigm.com/support](http://fluidigm.com/support).**

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