

## CD123 [EPR23188-72] - 169Tm

**Catalog:** 716902

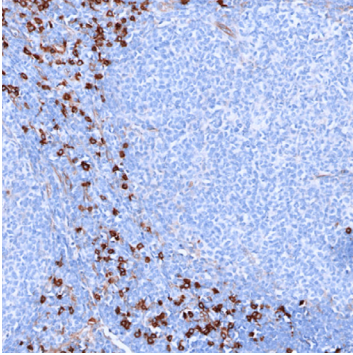
**Clone:** EPR23188-72

**Isotype:** Rabbit IgG

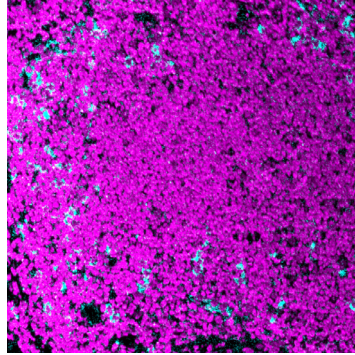
**Reactivity:** Human\*

**Application:** MIBI-FFPE

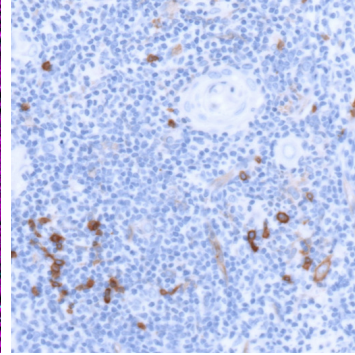
**Storage:** Supplied in antibody stabilizer with 0.05% sodium azide. Store at 4°C



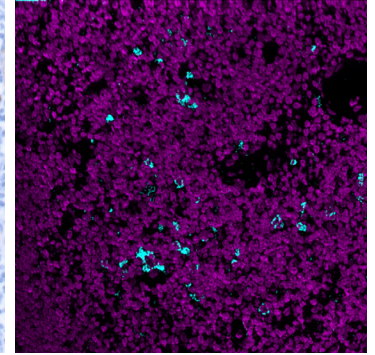
**IHC:** CD123 staining of FFPE human tonsil



**MIBI:** CD123 staining (cyan) of FFPE human tonsil, costained with dsDNA (magenta)



**IHC:** CD123 staining of FFPE human thymus



**MIBI:** CD123 staining (cyan) of FFPE human thymus, costained with dsDNA (magenta)

### Background

IL3RA/CD123 is the alpha subunit of an IL-3 receptor that also contains the common beta chain shared with receptors for other cytokines. IL3RA/CD123 is mainly expressed on the hematopoietic progenitor cells, primarily the granulocytic and monocytic lineages. CD123 is also used as a marker for plasmacytoid dendritic cells. Overexpression of CD123 has also been reported for other hematopoietic malignancies and is considered as a valuable therapeutic target for these malignancies.

### Validation

Each lot of conjugated antibody is quality control tested by staining tissue following the MIBI Staining Protocol optimized for the applicable tissue format with subsequent MIBIScope analysis of stained tissue microarray using the appropriate positive and negative tissue field of views. These results are pathologist verified.

### Recommended Usage

Human FFPE: 1:100 dilution. For optimal results, the antibody should be titrated for each desired application.

### References

Ugo Testa *et al.* Elevated expression of IL-3Ralpha in acute myelogenous leukemia is associated with enhanced blast proliferation, increased cellularity, and poor prognosis. *Blood*. 2002 Oct 15;100(8):2980-8.

Katherine D Cummins and Saar Gill. Anti-CD123 chimeric antigen receptor T-cells (CART): an evolving treatment strategy for hematological malignancies, and a potential ace-in-the-hole against antigen-negative relapse. *Leuk Lymphoma*. 2018 Jul;59(7):1539-1553.

\* Conjugate tested on human tissue.