

## IDO1 [EPR20374] - 171Yb

**Catalog:** 717101

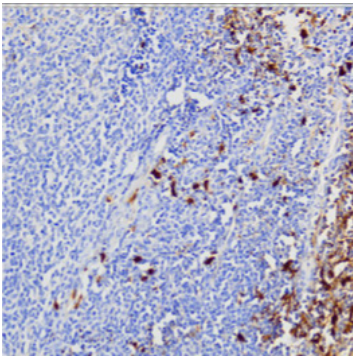
**Clone:** EPR20374

**Isotype:** Rabbit IgG

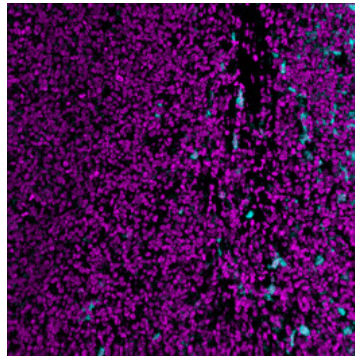
**Reactivity:** Human\*

**Application:** MIBI-FFPE

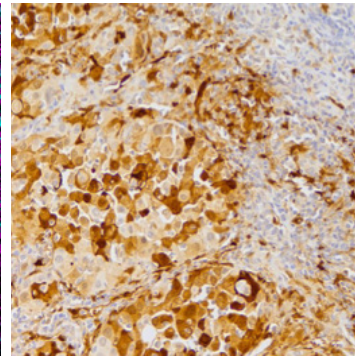
**Storage:** Supplied in antibody stabilizer with 0.05% sodium azide. Store at 4°C



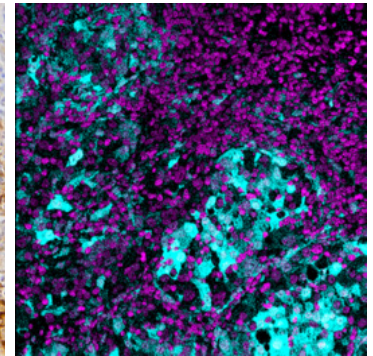
**IHC:** IDO1 staining of FFPE human tonsil



**MIBI:** IDO1 staining (cyan) of FFPE human tonsil, costained with dsDNA (magenta)



**IHC:** IDO1 staining of FFPE human lung adenocarcinoma



**MIBI:** IDO1 staining (cyan) of FFPE human lung adenocarcinoma, costained with dsDNA (magenta)

### Background

IDO1 (indolamine 2,3-dioxygenase) catalyzes the conversion of the essential amino acid tryptophan to N-formylkynurenine. IDO1 is expressed by suppressive macrophages and in some tumor cells. IDO1 is induced by interferon gamma. The reduction of tryptophan in the tumor microenvironment and the production of kynurenine inhibit T cell responses and contribute to a suppressed immune state. Inhibition of IDO1 is an area of active research in cancer immunotherapy, particularly in combination with other therapies.

### 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 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

Zhai, L., Ladomersky, E., Lenzen, A., Nguyen, B., Patel, R., Lauing, K.L., Wu, M., Wainwright, D.A. IDO1 in cancer: a Gemini of immune checkpoints. *Cellular & Molecular Immunology*. 2018; **15**:447-457.

\* Conjugate tested on human tissue.