

PD-1 [D4W2J] - 148Nd

Catalog: 714801

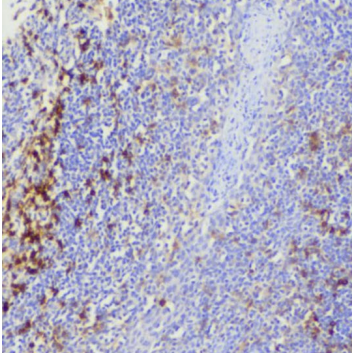
Clone: D4W2J

Isotype: Rabbit IgG

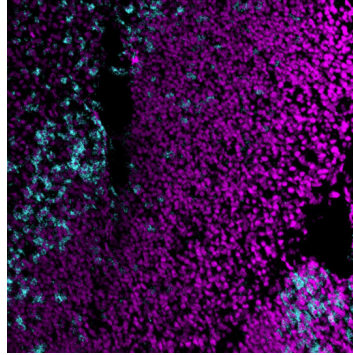
Reactivity: Human*

Application: MIBI-FFPE

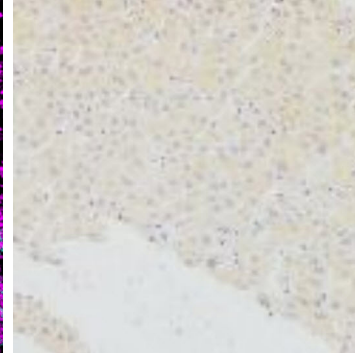
Storage: Supplied in antibody stabilizer with 0.05% sodium azide. Store at 4°C



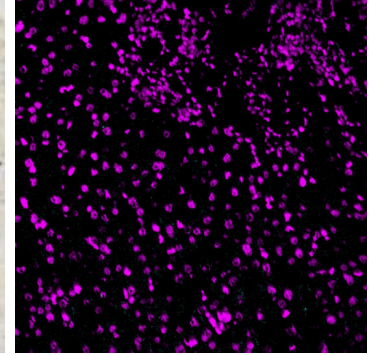
IHC: PD-1 staining of FFPE human tonsil



MIBI: PD-1 staining (cyan) of FFPE human tonsil, costained with dsDNA (magenta)



IHC: PD-1 staining of FFPE human follicular lymphoma



MIBI: PD-1 staining (cyan) of FFPE human follicular lymphoma, costained with dsDNA (magenta)

Background

PD-1 (programmed cell death protein 1, CD279) is expressed on activated T cells and binds to PD-L1 and PD-L2 to inhibit T cell activation through recruitment of phosphatases that attenuate TCR signaling. The interaction between PD-1 and PD-L1 supports tolerance to self-antigens and contributes to the healthy down-regulation of immune activation following viral clearance. In cancer the PD-1/PD-L1 interaction is exploited by tumor cells to dampen an immune response from tumor-infiltrating lymphocytes and as such these immune checkpoint molecules are being actively targeted by immunology 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

Zou W, Wolchok JD, Chen L. PD-L1 (B7-H1) and PD-1 Pathway Blockade for Cancer Therapy: Mechanisms, Response Biomarkers and Combinations. *Science Translational Medicine*. 2016; **8**(328):328rv4.

* Conjugate tested on human tissue.