Anti-PD-1 / DIA-PD1-OD
Mouse monoclonal anti-T cell marker
Clone JAD1

Product Information

Catalog No.:	**DIA-PD1-OD**
Clone:	JAD1
Isotype	Mouse IgG2b
Quantity	100µl
Specificity:	PD1
Physical State:	Liquid
Species Reactivity:	Human
Positive Control:	Tonsil
Visualization:	Membranous

Presentation:	Purified antibody in Tris pH 7.3-7.7 with 1% BSA, <0.1% NaN3
Applications:	Immunohistochemistry (IHC), standard formalin-fixed paraffin sections
Dilutions:	1:100 - 1:200 IHC-P

(General recommendation, validation of antibody performance/protocol is the responsibility of the end user. Positive/negative controls should be run simultaneously with patient specimen. Interpretation must be made by a qualified pathologist within the context of patient's clinical history/other diagnostic tests.)

Reactivity

Mouse monoclonal anti-PD-1 antibody clone JAD1 is suitable for the immunohistological detection of:

- Follicular helper T cells (TFH)
- Tumor-infitrating T cells (TILs) whose anti-tumor activity is inhibited by PD-1
- Lymphomas derived from TFH cells including
  - Angioimmunoblastic T-cell lymphoma
  - Primary cutaneous CD4-positive small/medium T-cell lymphoma
  - Follicular variant of peripheral T-cell lymphoma NOS

Background

PD-1 (Programmed Cell-Death 1) is expressed by germinal center-associated T cells in reactive lymphoid tissue. PD-1 (CD279, PDCD1, SLEB2) plays a key role in peripheral tolerance and autoimmune disease. Several tumors express ligand for PD1 (PDL1). On binding activated T cells in the tumor microenvironment, PD-1 inactivates antigen specific T cells that would otherwise attack tumor cells. Monoclonal antibodies to PD1 and PDL1 are currently being investigated in clinical trials for their potential to inhibit this pathway with the effect of elevated tumor immunity. Moreover, antibodies directed to PD-1 are also used for diagnosing certain T-cell derived lymphomas (for details see section reactivity).

Instructions for Use

Immunohistochemical staining of standard formalin-fixed paraffin sections

Deparaffinize and rehydrate according to standard procedures. Heat induced epitope retrieval (HIER) is required (pH 9-10 for 10-30 minutes). For immunohistochemical detection different techniques can be used: indirect immunoenzyme labeling with a secondary an-tibody conjugate, biotin/(strept)avidin-based detection, soluble enzyme immune complex or polymer-based detection. The antibody can be adapted for use on automated staining instruments.

Intented use / regulatory status

Europe: For in Vitro Diagnostic Use / All other countries: For Research Use only

Storage and Stability

Store at 2-8°C. Do not freeze. The antibody is stable until the date indicated on the label, when stored properly.

Safety Notes

The material contains <1% sodium azide as preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material. Avoid skin and eye contact, inhalation and ingestion.

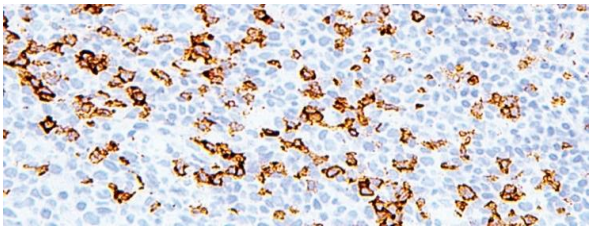

Figure anti-PD1 clone JAD1 stain on Tonsil

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