Recombinant PD1 Monoclonal Antibody

catalog number: **AN301420L**

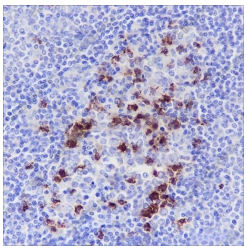
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

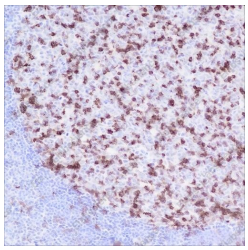
Reactivity	Human
Immunogen	Synthetic peptide derived from the human PD1 protein
Host	Rabbit
Isotype	Rabbit IgG
Clone	C341043
Purification	Protein A affinity purification
Conjugation	Unconjugated
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
IHC	1:200-1:1000
IF	1:50

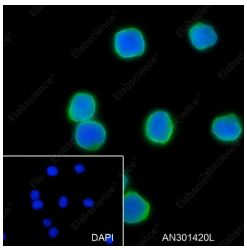
Data



Immunohistochemistry of paraffin-embedded Human spleen using PD1 Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Human tonsil using PD1 Monoclonal Antibody at dilution of 1:1000.



Immunofluorescent analysis of (4% Paraformaldehyde) fixed Molt4 cells using anti-PD1 Monoclonal Antibody at dilution of 1:50.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles.
Shipping	Ice bag

Background

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The programmed cell death 1 protein (PD1) is an inhibitory receptor expressed on antigen activated T-cells that plays a critical role in the induction and maintenance of immune tolerance to self-antigens. Upon binding to its ligands CD274/PDCD1L1 (PD-L1) and CD273/PDCD1LG2 (PD-L2), PD1 is phosphorylated within its immunoreceptor tyrosine-based switch motif (ITSM), which facilitates the recruitment of the protein tyrosine phosphatase PTPN11/SHP-2. PTPN11/SHP-2 then dephosphorylates key T-cell receptor (TCR) proximal signaling molecules, including ZAP70, PRKCQ/PKC theta and CD247/CD3 zeta, leading to the direct inhibition of T-cell activation. The PD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and evade destruction by the immune system, thereby facilitating tumor survival.