

TECHNICAL DATA SHEET

Anti-human PD-1 (6D5)

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Туре	Size	Catalog number
Unconjugated	100μg	112701
	500μg	112703

Antigen: Anti-PD-1

Immunogen: PD1 transfected HEK293 cells

Host/Isotype: Mouse, $\lg G1$, κ

Reactivity: Human

Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)

Formulation: PBS, pH7.2, 0.09% NaN₃

Storage: Store at 2-8°C. **Applications:** Flow Cytometry

Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis in PD-1 transfected NIH-3T3 cells. For flow cytometric staining, the recommended use of this antibody is $\leq 0.5 \mu g$ per 1×10^6 cells in $100 \mu l$ of staining volume followed by a secondary florescent conjugated anti-mouse antibody. It is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

Antigen Information

The clone 6D5, a mouse monoclonal antibody selectively binds with a 50-55 kD cell surface protein commonly known as Programmed cell death 1 (PD-1) or CD279, a member of the immunoglobulin superfamily. PD-1 expression is mostly observed in activated T cells and B cells, and also in dendritic cells. PD-1 signals via binding its two ligands, PD-L1 and PD-L2. Upon ligand binding, PD-1 signaling inhibits T-cell activation, leading to reduced proliferation, cytokine production, and T cell death. Blocking of PD-1 by its antibody restores T cells immunity against tumor and infectious agents. PD-1-blockade based immunotherapy is, therefore, highly clinically useful against various types of cancers and infectious diseases.

References

- 1. Keir, M.E, et al. 2008. Annu. Rev. Immunol. 26:677-704.
- 2. Barber, D.L., et al. 2006. Nature. 439: 682-687.
- 3. Day, C. L., et al. 2006. Nature. 443:350-354.
- 4. Kozako, T, et al. 2009.Leukemia. 23:375-382.
- 5. Thibult, M.L., et al. 2013. Int. Immunol. 25:129-137.
- 6. Sponaas, A-M, et al. 2015. PLoS One. 10:e0139867
- 7. Iwai, Y., et al. 2017. 2017. J. Biomed. Science. 24:26.

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.