Caprico Biotechnologies

TECHNICAL DATA SHEET

Anti-human PD-1 (6D5)

Type	Size	Catalog number
Unconjugated	100µg	112701
	500µg	112703
PE	25 tests	112724
	100 tests	112725
	200 tests	112726
Biotin	100ug	112751

Antigen: Anti-PD-1
Immunogen: PD1 transfected HEK293 cells
Host/Isotype: Mouse, IgG1, κ
Reactivity: Human
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09% NaN_3
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 ≤ 0.5µg per $1x10^6$ cells in 100µl 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

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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.

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