Caprico Biotechnologies

TECHNICAL DATA SHEET

Anti-human PD-1 (8G10)

Analyte Specific Reagent (ASR)*

Type	Number of tests	Volume per test (µL)	Total volume (µL)	Catalog number
PE	50	5	250	4252022
	100	5	500	4252025

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

Antigen Information

The clone 8G10, 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.*

*Analyte Specific Reagent. The analytical and performance characteristics of this ASR product are not established.

Caprico Biotechnologies, 400 Pinnacle Way, Suite 430, Norcross, GA 30071
Phone: +1 (678) 691-2143 Technical Support Ext 102, Fax: (678) 691-2223
Email: techsupport@capricobio.com
www.CapricoBio.com