

Product Datasheet

PD-L1 mAb (10F.9G2)TM, InVivoPure+ (orb2568775)

Catalog Number	orb2568775
Category	Antibodies
Description	Programmed death-1 (PD-1) is a cell surface receptor that functions as a T cell checkpoint and plays a central role in regulating T cell exhaustion. Binding of PD-1 to its ligand, programmed death-ligand 1 (PD-L1), activates downstream signaling pathways and inhibits T cell activation. Moreover abnormally high PD-L1 expression on tumor cells and antigen-presenting cells in the tumor microenvironment mediates tumor immune escape, and the development of anti-PD-1/PD-L1 antibodies has recently become a hot topic in cancer immunotherapy. The 10F.9G2 antibody is a monoclonal antibody specific for the mouse protein PD-L1 (Programmed Death Ligand 1), also known as B7-H1 or CD274. PD-L1 is a 40 kDa type I transmembrane protein that belongs to the B7 family of the immunoglobulin superfamily. It is expressed on T cells, B cells, NK cells, dendritic cells, as well as on IFN-γ stimulated monocytes, epithelial cells and endothelial cells. The interaction of PD-L1 with its receptor PD-1 on T cells leads to the inhibition of T cell proliferation and cytokine production. The anti-PD-L1 (10F.9G2) blocking antibody blocks interaction of PD-L1 with both of its binding partners, PD-1 and CD80 (B7-1).
Target	PD-L1
Clonality	Monoclonal
Species/Host	Rat
Isotype	Rat IgG2b k
Conjugation	Unconjugated
Reactivity	Mouse

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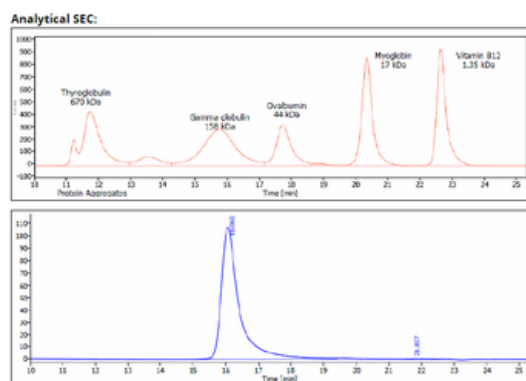
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Form/Appearance	Clear Liquid, PBS, pH 7.4, 0.2 µm sterile filtered
Concentration	≥ 1 mg/ mL
Buffer/Preservatives	Clear Liquid, PBS, pH 7.4, 0.2 µm sterile filtered
Purity	≥ 95 % (CGE, reducing conditions) ≤ 5 % aggregates (analytical SEC) Endotoxin level ≤ 1 EU/mg
Immunogen	murine PD-L1-cDNA + CHO-mPD-L1transfectants
UniProt ID	Q9EP73
Application notes	Recomended Isotype: Rat IgG2b Isotype control, Recomendend Isotype Catalog: orb3127216
Antibody Type	Primary Antibody
Clone Number	10F.9G2TM
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



SEC-HPLC purity analysis of orb2568775.

Analytical SEC of purified protein (blue) in comparison with gel filtration standard (red).

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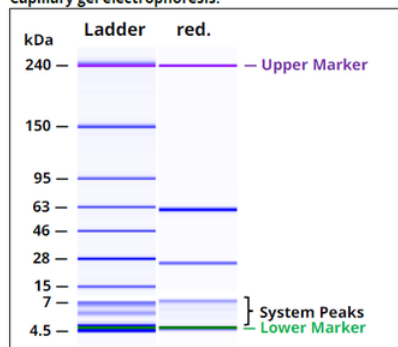
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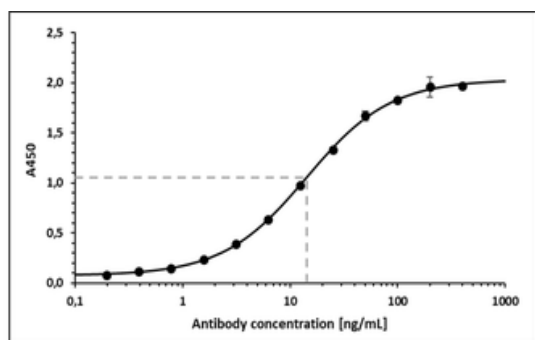
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Capillary gel electrophoresis:



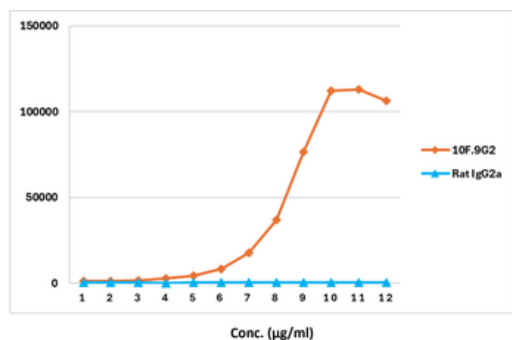
CGE of the purified protein under reducing (red.) conditions.

SDS-PAGE gel analysis of orb2568775.



Standard curve for orb2568775 ELISA kit.

ELISA analysis of PD-L1 mAb (10F.9G2). Coating antigen: Mouse PD-L1 (B7-H1) His-tag, Rec. Protein at 1 µg/mL. The EC50 of the antibody is 14,22 ng/mL.



Standard curve for orb2568775 ELISA kit.

10F.9G2, (1.45mg/ml) 10ug/ml and twelve 3-fold dilutions
Cells: 300-mPD-L1, 75,000 cell/well
2nd Ab: Goat anti-rat IgG-PE Southern 2014-31, 10ug/ml

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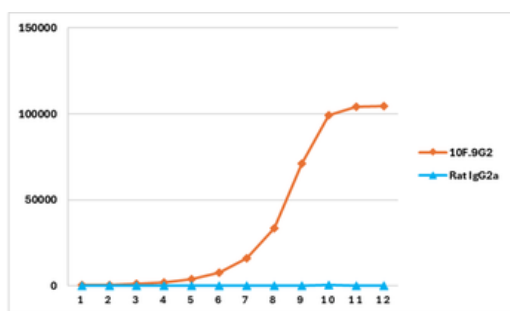
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Standard curve for orb2568775 ELISA kit.

Conc. (µg/ml)
 10F.9G2, (1.45mg/ml) 10ug/ml and twelve 3-fold dilutions
 Cells: 300-mPD-L1, 75,000 cell/well
 2nd Ab: Goat anti-rat IgG-PE Southern 2014-31, 10ug/ml

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