

Product Datasheet

PD-1 mAb (RMP1-14), InVivoPure (orb3127245)

Catalog Number	orb3127245
Category	Antibodies
Description	PD-1 is expressed on the surface of activated T cells, B cells and myeloid cells. PD-1 has two natural ligands, PD-L1 and PD-L2. Engagement of PD-1 with either ligand suppresses immune responses and promotes self-tolerance. PD-L1 and PD-L2 only share 37% sequence identity, but have similar functions and expression profiles. Where PD-L1 is expressed in immune cells such as T and B cells, DCs, and macrophages, as well as in many different tumor types. PD-L2 expression has been reported to be more restricted to APCs. The overexpression of PD-L1 and/or PD-L2 in cancer cells reduces the body's immune responses, enabling cancer cells to evade killing mediated by T cells. PD-L1 is expressed more widely by tumor cells than PD-L2, and the blockade of the PD-1/PD-L1 interaction is more frequently targeted by therapeutic agents . RMP1-14 is a monoclonal antibody that targets the murine PD-1 protein , and has been used extensively to probe the effects of PD-1 inhibition in preclinical murine models .
Target	PD-1
Clonality	Monoclonal
Species/Host	Rat
Isotype	Rat IgG2a k
Conjugation	Unconjugated
Reactivity	Mouse
Form/Appearance	Clear Liquid, PBS, pH 7.4, 0.2 µm sterile filtered
Concentration	≥ 1 mg/ mL

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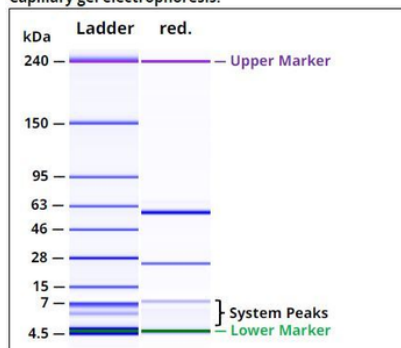
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Purity	≥ 90 % (CGE, reducing conditions) ≤ 10 % aggregates (analytical SEC) Endotoxin level ≤ 2 EU/mg
Immunogen	Mouse PD-1 transfected BHK cells
UniProt ID	Q02242
Application notes	Recomended Isotype: Rat IgG2a Isotype control, Recomendend Isotype Catalog: orb3127217
Antibody Type	Primary Antibody
Clone Number	RMP1-14
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.

Capillary gel electrophoresis:



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

SDS-PAGE gel analysis of orb3127245.

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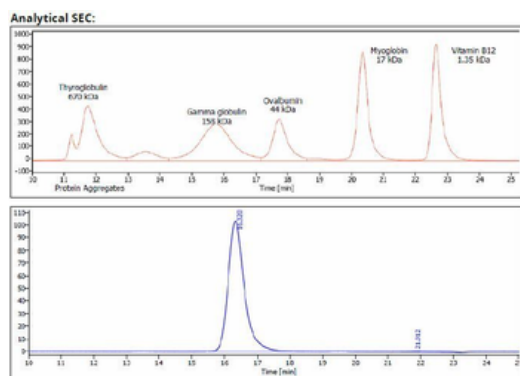
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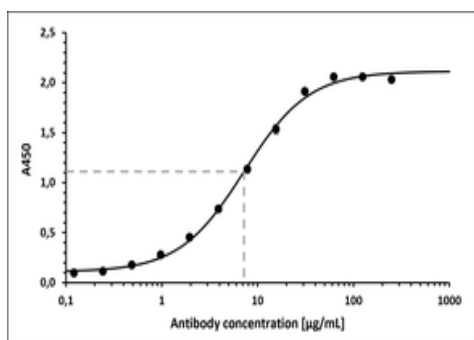
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SEC-HPLC purity analysis of orb3127245.



Standard curve for orb3127245 ELISA kit.

ELISA analysis of anti-mouse PD-1 (RMP1-14). Coating antigen: Mouse PD-1 His-tag, Rec. Protein at 1 µg/mL. The EC50 of the antibody is 7.22 µg/mL.

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