

Product Datasheet

PD-1 mAb (RMP1-14), InVivoPure+ (orb3127244)

Catalog Number	orb3127244
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

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

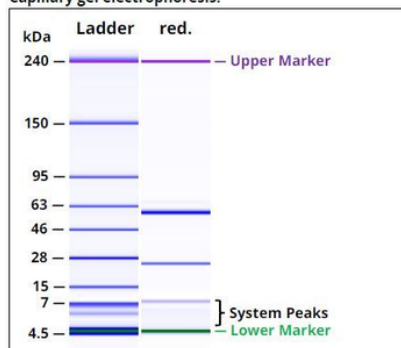
Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

Purity	≥ 95 % (CGE, reducing conditions) ≤ 5 % aggregates (analytical SEC) Endotoxin level ≤ 1 EU/mg
Immunogen	Mouse PD-1 transfected BHK cells
UniProt ID	Q02242
Application notes	Recomended Isotype: Rat IgG2a Isotype control, Recomendend Isotype Catalog: orb2568795
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 orb3127244.

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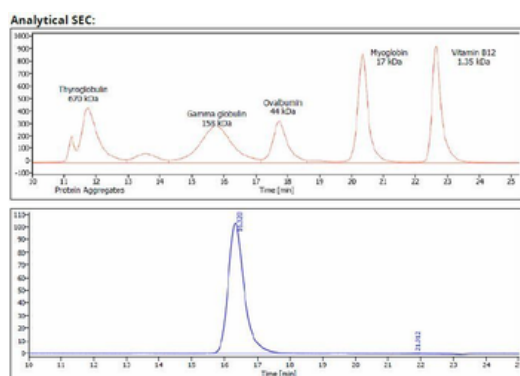
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Analytical SEC of purified protein (blue) in comparison with gel filtration standard (red).

SEC-HPLC purity analysis of orb3127244.

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