

Product Datasheet

PD-1 mAb (29F.1A12)TM, InVivoPure (orb2568778)

Catalog Number	orb2568778
Category	Antibodies
Description	<p>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 29F.1A12 antibody is a monoclonal antibody directed against the mouse protein PD-1 (Programmed Death-1), also known as CD279. It blocks the binding of PD-1 to its two ligands, PD-L1 and PD-L2.</p>
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
Buffer/Preservatives	Clear Liquid, PBS, pH 7.4, 0.2 µm sterile filtered
Purity	≥ 90 % (CGE, reducing conditions) ≤ 10 % aggregates (analytical SEC) Endotoxin level ≤ 2 EU/mg

Biorbyt Ltd.

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

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

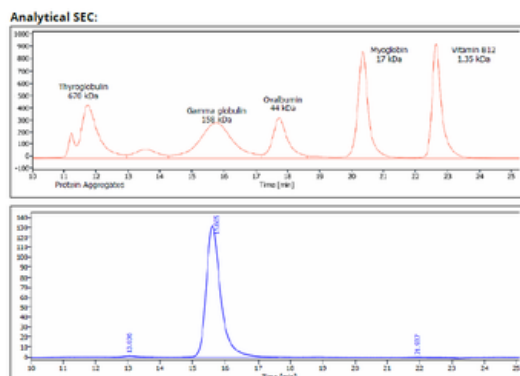
Biorbyt LLC

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](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Immunogen	The antibody was raised by immunizing rats with plasmid DNA containing PD-1. Boost immunizations were done with PD-1-Igfusion proteins.
UniProt ID	Q02242
Application notes	Recommended Isotype: Rat IgG2a Isotype control, Recommended Isotype Catalog: orb3127217
Antibody Type	Primary Antibody
Clone Number	29F.1A12TM
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.



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

Biorbyt Ltd.

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

Email: info@biorbyt.com, support@biorbyt.com

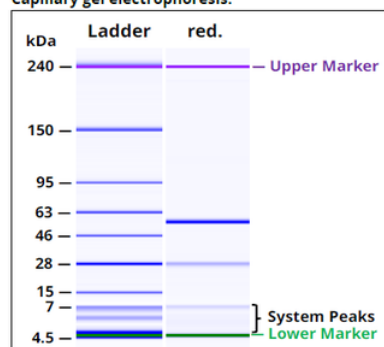
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

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

Capillary gel electrophoresis:

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

SDS-PAGE gel analysis of orb2568778.

Biorbyt Ltd.

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

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

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](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)