

Certificate of Analysis

Order Number: C9445CI200

Protein Name: Anti PD-1 antibody

Shipping Conditions: Dry Ice

Lot Number: C9445CI200S01/B50021705

For research use only

860 Centennial Ave., Piscataway, NJ 08854, USA

Toll-Free: 1-877-436-7274 Tel: 1-732-885-9188 Fax: 1-732-210-0262 Email: order@genscript.com Web: www.genscript.com

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Certificate of Analysis

Order Number: C9445CI200
Protein Name: Anti PD-1 antibody
Synonyms: lambrolizumab
Shipping Conditions: Dry Ice
Lot Number: C9445CI200S01/B50021705

Codon Optimization: Yes
Expression System: Stable expression cell line
Purification: Protein was obtained from supernatant, followed by AC, CEX and SEC

Package: 10 mg. 1 ml/tube, 1 tube
Concentration: 10.0 mg/ml, determined by UV280 method (EC280^{0.1%}=1.418)
Purity: 98.54% as estimated by SEC-HPLC
Endotoxin Level: <1 EU/mg (LAL Endotoxin Assay Kit, GenScript, Cat.No. L00451-20)
Potency (EC50): 0.09719
Sterility: Sterilized via a 0.22 µm filter and packaged aseptically
Storage and Handling: Store at -80°C. Aliquots should be stored at the same temperature after first use to avoid multiple freeze-thaws
Storage Buffer: PBS, pH 7.2

Lot:	Size	Tubes	Conc.	Total protein	Purity	Endotoxin
C9445CI200S01/B50021705	1 ml/tube	1	10.0 mg/ml	10 mg	98.54 %	< 1 EU/mg

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SDS-PAGE Analysis:

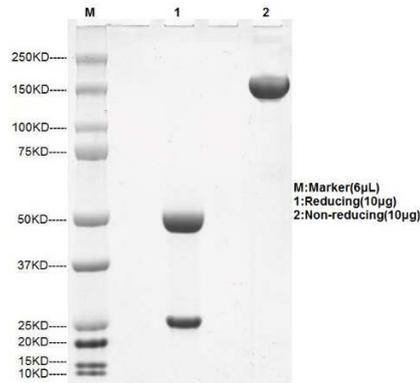


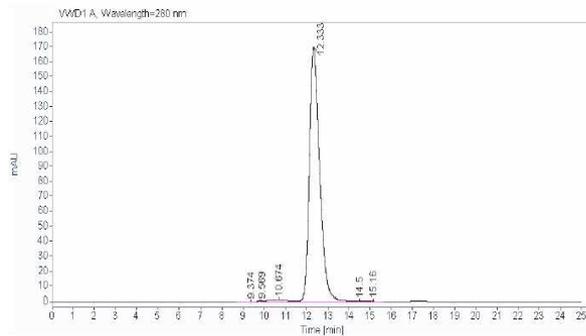
Fig.1 SDS-PAGE analysis of Anti PD-1 antibody

Lane M: Protein Marker,(Bio-Rad, Cat.NO. 1610374)

Lane 1: Anti PD-1 antibody (Reducing conditions, 10 µg)

Lane 2: Anti PD-1 antibody (Non-reducing conditions, 10 µg)

SEC-HPLC analysis:



Signal: VWD1 A, Wavelength=280 nm

RT [min]	Height	Width	Area	Area%	Plates (USP)	Peak Tail Factor	Symmetry
9.37	0.11	0.51	4.323	0.08	3197.4	0.57	5.34
9.57	0.11	0.767	0.767	0.01	1677.7	0.77	2.01
10.67	1.13	0.90	69.430	1.21	712.5	0.96	1.10
12.33	169.46	0.51	5675.835	98.54	3173.4	1.36	0.65
14.50	0.23	0.51	6.900	0.12			0.19
15.16	0.12	0.32	2.955	0.05	2607.0	12.44	0.20

Fig.2. SEC-HPLC analysis of Anti PD-1 antibody

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Potency assay:

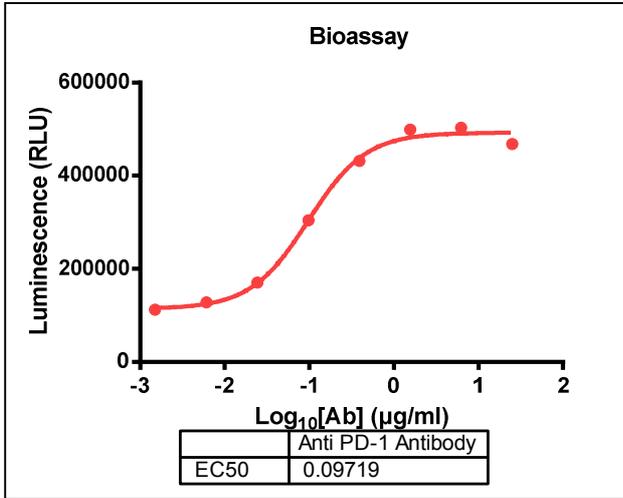


Fig.3 Potency assay of Anti PD-1 antibody

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Packing List

Protein (Shipping Condition: Dry Ice, Store at -80°C)

Protein name: Anti PD-1 antibody

Size: 1 ml/tube

Concentration: 10.0 mg/ml

Purity: 98.54%

Potency: 0.09719

Buffer: PBS, pH 7.2

Endotoxin Level: <1 EU/mg

Lot: C9445CI200S01/B50021705

Number of vials: 1

Total: 10 mg

Store at: - 80°C

Certified by:

Felix. Zhu

Date: 09/20/2017

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