

Version 02

Update: 09/22/2021

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name	Anti-Human PD-1 Antibody (PD1.H5), mAb, Mouse
Cat. No.	A01828
Lot No.	H2109007
Quantity	Specified on product label
Presentation	Lyophilized powder from antibody solution with PBS, pH 7.4, containing 0.02% sodium azide
Conjugation	Unconjugated
Storage	The product remains stable up to 1 year at -20 °C from date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid repeated freezing and thawing cycles.

### Quality Control

Test Items	Specifications	Results
Reactivity	ELISA titer $\geq 1:20,000$ Specific to human PD-1 by ELISA	Qualified
Concentration	Tested by A280nm with the extinction coefficient 1.43	Qualified
Purification	Protein A affinity column	Qualified
Purity	$\geq 90\%$ by SDS-PAGE	Qualified

### Caution:

For laboratory or further manufacturing use only. Not intended for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188.

**Certified by:** *Dandan Yao* **Date:** 09/28/2021  
**Quality Department**

*For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.*