# **Technical Data Sheet**

### InVivoMAb anti-mouse/human phosphorylated PD-1 (CD279)



<u>Attention</u>: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <a href="https://bioxcell.com/terms-and-conditions">https://bioxcell.com/terms-and-conditions</a>.

### Lot Specific Information

Lot Number: Lot Specific\* Volume: Lot Specific\*

Concentration: Lot Specific\* (generally 4 to 11 mg/ml) \*

Total Protein: Lot Specific\*

\*This information will be noted on the certificate of analysis that ships with this product.

#### **Product Information**

 Catalog Number:
 BE0387

 Clone:
 407.6G12

 Isotype:
 Mouse IgG2a, κ

Recommended Isotype Control(s): InVivoMAb mouse IgG2a isotype control, unknown specificity

**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer

Immunogen: Human PD-1 p248Tyr peptide conjugated to KLH

**Reported Applications:**Western Blot
Flow Cytometry

**Formulation:** PBS, pH 7.0

Contains no stabilizers or preservatives

**Endotoxin:** <2EU/mg (<0.002EU/µg)

Determined by LAL gel clotting assay

**Purity:** >95%

Determined by SDS-PAGE

Sterility: 0.2 µm filtration

**Production:** Purified from cell culture supernatant in an animal-free facility

**Purification:** Protein A

RRID:

Molecular Weight: 150 kDa

### **Description**

The 407.6G12 monoclonal antibody reacts with phosphorylated mouse PD-1. Specifically, the antibody only reacts with PD-1 when tyrosine 248 (Y248) is phosphorylated. PD-1 is a 50-55 kDa cell surface receptor that belongs to the CD28 family of the lg superfamily. PD-1 is transiently expressed on CD4 and CD8 thymocytes as well as activated T and B lymphocytes and myeloid cells. PD-1 expression declines after successful elimination of antigen. PD-1 signals via binding its two ligands, PD-1 and PD-L2. Upon ligand binding, PD-1 signaling inhibits T-cell activation, leading to reduced proliferation, cytokine production, and T-cell death. Phosphorylation of Y248 of the ITSM motif of PD-1 is essential for the initiation of inhibitory signals. PD-1 blockade leads to reduced phosphor-PD-1. The 6G12 antibody can be used to assess the efficacy of PD-1 pathway blockade.

## **Storage**

Store at the stock concentration at 4°C. **Do not freeze.** 

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <a href="https://bioxcell.com/fags">https://bioxcell.com/fags</a>.

### **Protocol Information**

Bio X Cell, LLC Page 1 of 2

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Bio X Cell, LLC

https://bioxcell.com +1-866-787-3444 customerservice@bioxcell.com Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.

Not for resale.

Bio X Cell, Bio X Cell logo, and all other trademarks are the property of Bio X Cell, LLC © 2024 Bio X Cell, LLC

Bio X Cell, LLC Page 2 of 2