Technical Data Sheet

**InVivoMAb anti-mouse PD-L1 (B7-H1)**

**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:** BE0101
- **Clone:** 10F.9G2
- **Isotype:** Rat IgG2b, κ
- **Recommended Isotype Control(s):** InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin
- **Recommended Dilution Buffer:** InVivoPure pH 6.5 Dilution Buffer
- **Immunogen:** Mouse CD274
- **Formulation:** PBS, pH 6.5
- **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 filtered
- **Production:** Purified from tissue culture supernatant in an animal free facility
- **Purification:** Protein G
- **RRID:** AB_10949073
- **Molecular Weight:** 150 kDa

**Description**
The 10F.9G2 monoclonal antibody reacts with mouse PD-L1 (programmed death ligand 1) also known as B7-H1 or CD274. PD-L1 is a 40 kDa type I transmembrane protein that belongs to the B7 family of the Ig superfamily. PD-L1 is expressed on T lymphocytes, B lymphocytes, NK cells, dendritic cells, as well as IFNγ stimulated monocytes, epithelial cells and endothelial cells. PD-L1 binds to its receptor, PD-1, found on CD4 and CD8 thymocytes as well as activated T and B lymphocytes and myeloid cells. Engagement of PD-L1 with PD-1 leads to inhibition of TCR-mediated T cell proliferation and cytokine production. PD-L1 is thought to play an important role in tumor immune evasion. Induced PD-L1 expression is common in many tumors and results in increased resistance of tumor cells to CD8 T cell mediated lysis. In mouse models of melanoma, tumor growth can be transiently arrested via treatment with antibodies which block the interaction between PD-L1 and PD-1. The 10F.9G2 antibody has been shown to block the interaction between PD-L1 and PD-1 and between PD-L1 and B7-1 (CD80).

**Shelf-life and Storage**
Store at the stock concentration at 4°C. **Do not freeze.**
All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 bxcell.com/faqs.

**Protocol Information**
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.

**Application References**
For a complete list of references, visit [https://bxcell.com/product/m-pdl1/#references](https://bxcell.com/product/m-pdl1/#references) or scan the QR code below.

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 Binding Validation

Western blot data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, email technicalservice@bxcell.com.

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Lane 1: 0.1 µg reduced purified mouse PD-L1 with histidine tag at C-terminus
Lane 2: 0.05 µg reduced purified mouse PD-L1 with histidine tag at C-terminus

Primary: anti-mouse PD-L1 antibody (10F.9G2) at 8 µg/ml

Secondary: HRP labeled goat anti-rat at 1:1000 dilution

Predicted band size: 40-45 kDa