**Technical Data Sheet**

# *InVivo*MAb anti-mouse BTLA (CD272)

## Lot Specific Information

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|---|---|
| **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

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|---|---|
| **Catalog Number:** | **BE0304** |
| **Clone:** | **6F7** |
| **Isotype:** | Mouse IgG1, κ |
| **Recommended Isotype Control(s):** | InVivoMAb mouse IgG1 isotype control, unknown specificity |
| **Recommended Dilution Buffer:** | InVivoPure pH 7.0 Dilution Buffer |
| **Immunogen:** | Ig domain of C57BL/6 mouse BTLA |
| **Reported Applications:** | *in vivo* BTLA$^+$ B cell and CD4 T cell depletion*<br>Flow cytometry<br><br>*see description for details |
| **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 filtered |
| **Production:** | Purified from tissue culture supernatant in an animal free facility |
| **Purification:** | Protein G |
| **RRID:** | AB_2721033 |
| **Molecular Weight:** | 150 kDa |

## Description

The 6F7 monoclonal antibody reacts with mouse B- and T-lymphocyte attenuator (BTLA) also known as CD272. BTLA is an Ig superfamily member which is expressed on B cells, T cells, macrophages, dendritic cells, NK cells, and NKT cells. Like PD-1 and CTLA-4, BTLA interacts with a B7 homolog, B7-H4. However, unlike PD-1 and CTLA-4, BTLA displays T cell inhibition via interaction with tumor necrosis family receptors, not just the B7 family of cell surface receptors. BTLA is a ligand for herpes virus entry mediator (HVEM). BTLA-HVEM complexes have been shown to negatively regulate T cell immune responses. There are conflicting reports concerning the activity of the 6F7 antibody. In some cases, the antibody is reported to deplete BTLA$^+$ B and CD4 T cells while in others the antibody is reported as having agonistic activity. See the references for details.

## 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/invivomab-anti-mouse-btla-cd272/#references or scan the QR code below.

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