**Technical Data Sheet**

*InVivoMAb anti-human CD40*

### Lot Specific Information

<table>
<thead>
<tr>
<th>Lot Number:</th>
<th>Lot Specific*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume:</td>
<td>Lot Specific*</td>
</tr>
<tr>
<td>Concentration:</td>
<td>Lot Specific* (generally 4 to 11 mg/ml) *</td>
</tr>
<tr>
<td>Total Protein:</td>
<td>Lot Specific*</td>
</tr>
</tbody>
</table>

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

### Product Information

**Catalog Number:** BE0189  
**Clone:** G28.5  
**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:** Human tonsillar lymphocytes  
**Prominent marker:** in vitro B cell stimulation  
**Additional marker:** in vitro macrophage stimulation  
**Functional assays:** Functional assays  
**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_10950314  
**Molecular Weight:** 150 kDa

### Description

The G28.5 monoclonal antibody reacts with human CD40 also known as Bp50. CD40 is a 48 kDa type I transmembrane glycoprotein that belongs to the tumor necrosis factor receptor (TNFR) superfamily. CD40 is expressed broadly on antigen-presenting cells (APCs) such as dendritic cells, B cells, macrophages, and monocytes as well as non-immune endothelial cells, basal epithelial cells, and a range of tumors. Upon binding to its ligand, CD154, CD40 acts as a costimulatory molecule for the activation of B cells, dendritic cells, monocytes, and other APCs. CD40 plays roles in B cell activation, differentiation, proliferation and Ig isotype switching as well as dendritic cell maturation. Agonistic CD40 monoclonal antibodies have been shown to activate APCs and promote anti-tumor T cell responses. The G28.5 antibody is an agonistic antibody that has been shown to activate CD40 expressing APCs.

### 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/h-cd40/#references](https://bxcell.com/product/h-cd40/#references) or scan the QR code below.