**Technical Data Sheet**

*InVivoMAb anti-mouse CD47 (IAP)*

**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:** BE0270  
**Clone:** MIAP301  
**Isotype:** Rat IgG2a, κ  
**Recommended Isotype Control(s):** InVivoMAb rat IgG2a isotype control, anti-trinitrophenol  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Immunogen:**

**Reported Applications:**  
- in vivo CD47 blockade  
- Immunofluorescence  

**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_2687793  
**Molecular Weight:** 150 kDa

**Description**

The MIAP301 monoclonal antibody reacts with mouse CD47 otherwise known as integrin-associated protein (IAP). CD47 is an approximately 50 kDa glycosylated five-transmembrane protein that is ubiquitously expressed by both hematopoietic cells such as T and B lymphocytes, monocytes, platelets and erythrocytes and non-hematopoietic cells. CD47 is involved in a range of cellular processes, including apoptosis, proliferation, adhesion, and migration. Furthermore, it plays a key role in immune and angiogenic responses. CD47 is a receptor for thrombospondin-1 (TSP-1), a secreted glycoprotein that plays a role in vascular development and angiogenesis. CD47 is has been found to be overexpressed in many different tumor cells. Because of this, anti-CD47 monoclonal antibodies have been proposed and studied as a therapeutic treatment for human cancers. The MIAP301 antibody has been shown to neutralize CD47 in vivo and in vitro.

**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-mouse-cd47-iap/#references or scan the QR code below.