# **Technical Data Sheet**

InVivoMAb anti-mouse CD54 (ICAM-1)



<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:
 BE0020-1

 Clone:
 YN1/1.7.4

 Isotype:
 Rat IgG2b, к

**Recommended Isotype Control(s):** InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin

Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer Immunogen: NS-1 mouse myeloma cells In vivo ICAM-1 neutralization

Immunohistochemistry (frozen)

**ELISA** 

**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 cell culture supernatant in an animal-free facility

Purification: Protein G

RRID: AB\_1107661

Molecular Weight: 150 kDa

#### **Description**

The YN1/1.7.4 monoclonal antibody reacts with mouse CD54 also known as Intercellular Adhesion Molecule-1 (ICAM-1). CD54 is a 90 kDa single-chain transmembrane glycoprotein and a member of the Ig superfamily. CD54 is typically expressed on non-hematopoietic cells such as endothelial cells, thymic epithelial cells, and fibroblasts but can also be expressed on macrophages, T-lymphoblasts, germinal center B cells and dendritic cells. CD54 is a ligand for LFA-1, a receptor found on leukocytes. When activated, leukocytes bind to endothelial cells via CD54/LFA-1 to facilitate transmigration into tissues. Pro-inflammatory cytokines such as IL-1, TNF and IFNy induce CD54 expression on endothelial cells and fibroblasts. The YN1/1.7.4 antibody has been shown to neutralize CD54 in vivo and inhibit CXCL1, IFNy, and IL-17 production and neutrophil infiltration into inflammatory lesions.

#### 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/faqs">https://bioxcell.com/faqs</a>.

Bio X Cell, LLC Page 1 of 2

### **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 <a href="https://bioxcell.com/catalogsearch/result/?q=BE0020-1#tab\_references">https://bioxcell.com/catalogsearch/result/?q=BE0020-1#tab\_references</a> or scan the QR code below.



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