



InVivoMAb anti-mouse CD54 (ICAM-1)

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, κ
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 <i>in vivo</i> ICAM-1 neutralization
Reported Applications:	Immunohistochemistry (frozen) ELISA
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<2EU/mg (<0.002EU/ μ g) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 μ M filtered
Production:	Purified from tissue 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 IFN γ 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, IFN γ , and IL-17 production and neutrophil infiltration into inflammatory lesions.

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-cd54-icam/#references> or scan the QR code below.

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