

Technical Data Sheet

InVivoMAb anti-mouse c-Kit (CD117)



Attention: 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 <https://bioxcell.com/terms-and-conditions>.

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: BE0293
Clone: ACK2
Isotype: Rat IgG2b
Recommended Isotype Control(s): InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: IL-3-dependent mast cells
Reported Applications: *in vivo* mast cell depletion
in vivo c-Kit⁺ cell depletion
in vitro c-Kit neutralization
Immunoprecipitation
Flow cytometry

Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives

Endotoxin: ≤1EU/mg (≤0.001EU/μg)
Determined by LAL gel clotting assay

Purity: ≥95%
Determined by SDS-PAGE

Sterility: 0.2 μm filtration

Purification: Protein G

RRID: [AB_2687818](https://europepmc.org/abstract/DOI/doi:10.26434/chemrxiv-2020-08-26)

Description

The ACK2 monoclonal antibody reacts with mouse c-Kit also known as CD117, Steel factor receptor, stem cell factor receptor, and mast cell growth factor. c-Kit is a 145 kDa transmembrane tyrosine kinase and an immunoglobulin superfamily member. c-Kit is expressed on hematopoietic progenitor cells, mast cells, and acute myeloid leukemia (AML) cells. The interaction of the c-Kit receptor and its ligand stem cell factor (SCF), promotes the proliferation and differentiation of hematopoietic progenitor cells. The ACK2 antibody has been reported to deplete c-Kit⁺ cells, including mast cells, when administered *in vivo* and neutralize c-Kit⁺ signaling when used *in vitro*. This antibody is reported to cross-react with rat c-Kit.

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 <https://bioxcell.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://bioxcell.com/be0293?bxcs=9k1b3a#tab_references or scan the QR code below.



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