Technical Data Sheet

InVivoMAb anti-rat CD28



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

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:	BE0418
Clone:	JJ316
Isotype:	Mouse lgG1, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG1 isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Rat CD28-transfected BALB/c mouse A2OJ cell line
Reported Applications:	in vivo T cell stimulation/activation
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:	
Molecular Weight:	150 kDa

Description

The JJ316 monoclonal antibody reacts with rat CD28, a 45 kDa costimulatory receptor and a member of the lg superfamily. CD28 is expressed by thymocytes, most peripheral T cells, and NK cells. CD28 is a receptor for CD80 (B7-1) and CD86 (B7-2). Signaling through CD28 augments IL-2 and IL-2 receptor expression as well as cytotoxicity of CD3-activated T cells. In contrast to JJ319 which is a "conventional" CD28-specific Mab that costimulates anti-TCR-triggered proliferation in vitro, JJ316 is a CD28 "superagonistic" antibody that induces polyclonal T cell proliferation in vitro and in vivo and does not require TCR ligation.

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.

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