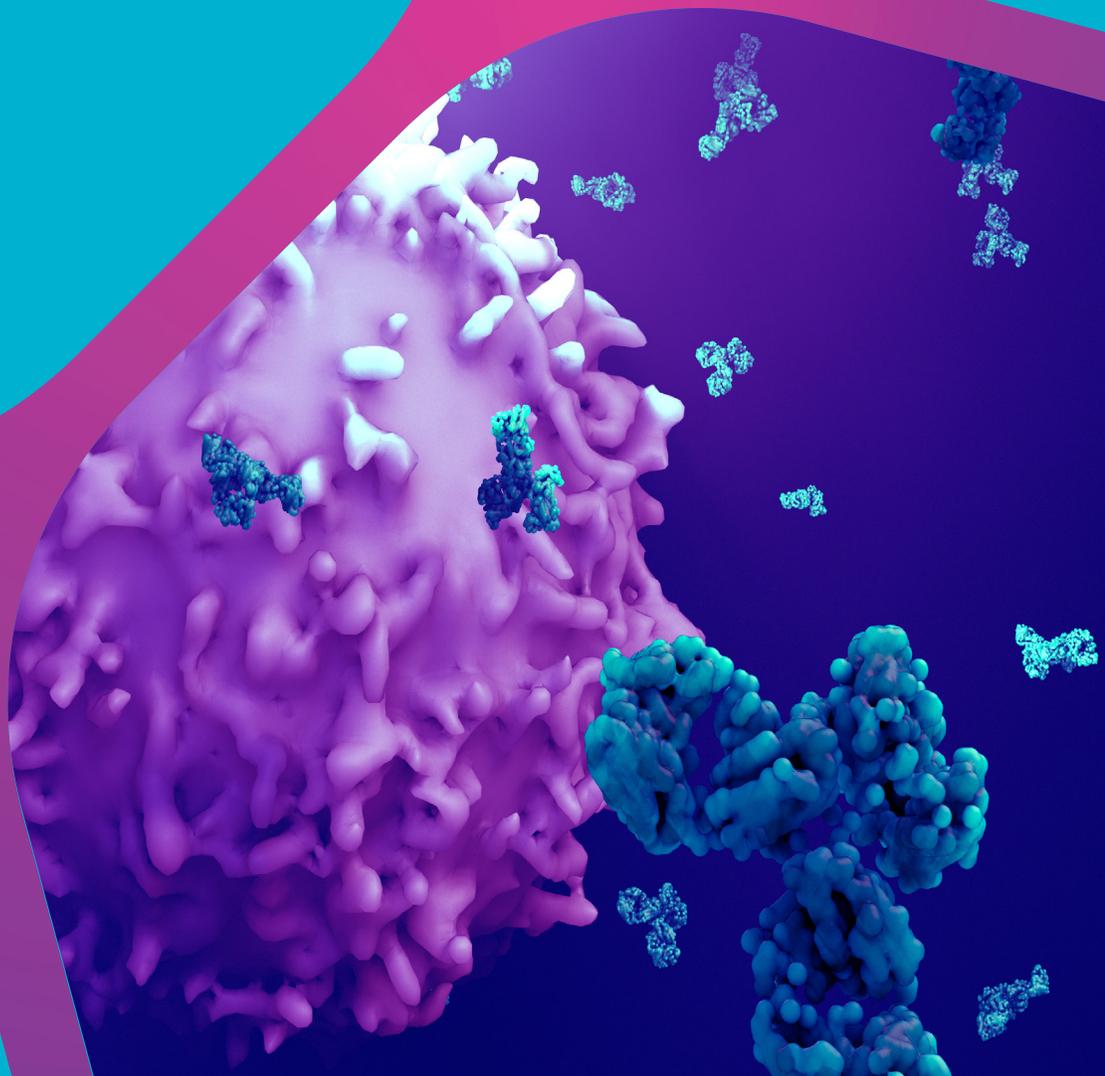




Ultra-Pure Antibodies for Organoid Studies

Ready-to-Ship *In Vivo* Antibodies
Purpose Built for Sensitive Biology



Ultra-Pure Antibodies for Organoid Studies

Ready-to-Ship *In Vivo* Antibodies Purpose Built for Sensitive Biology

Modern New Approach Methodologies (NAMs) are accelerating translational research by shifting from animal models to organoids and organ-on-chip systems that better reflect human biology. These advanced 3D models are highly sensitive: even trace contaminants such as endotoxin, carrier proteins, or sodium azide can trigger unwanted cytokine release, stress responses, or full cytokine-storm-like cascades that obscure true pathway biology.

Bio X Cell functional antibodies eliminate these artifacts at the source. Manufactured to *in vivo*-grade standards, each reagent is $\geq 95\%$ pure, ultra-low in endotoxin ($\leq 0.5\text{--}2$ EU/mg), and completely carrier-free to ensure reproducible activation, blockade, and depletion without inflammatory noise.

With rigorous lot-level QC, seamless mg-to-g scalability, and flexible formats, Bio X Cell antibodies enable researchers to seamlessly transition experiments from *in vivo* models to *in vitro* and 3D systems. This continuity maximizes translational relevance, reduces variability, and helps accelerate discovery across modern research workflows.

Scale with Confidence Across the Translational Workflow



Additive-Free for Sensitive Biology

- Carrier-free, preservative-free formulations
- Eliminates cytokine artifacts and immune noise
- Optimized for sensitive organoid systems



Comprehensive QC Data

- Lot-level validation for purity, concentration, and endotoxin
- QC aligned with physiological system sensitivity
- Traceable CoAs for reproducible workflows



Ensured Antibody Purity

- $\geq 95\%$ purity, ultra-low endotoxin
- Minimizes off-target cytotoxicity
- Built for true *in vivo*-ready performance



Seamlessly Transition Experiments

- Same functional antibody across *in vivo*, organoid, and human-relevant systems
- No reformulation, no variability between models



Industry-Leading Reproducibility

- Trusted in nearly 30,000 peer-reviewed publications
- Engineered for lot-to-lot consistency in living systems



Reliable Production & Ready-to-Ship Catalog

- *In vivo*-ready antibodies available immediately
- U.S.-based, mg-g scale manufacturing accelerates data generation

Ready-to-Ship Organoid Antibodies from Bio X Cell

Maintain mechanistic continuity from murine models to human-relevant organoid systems using functional antibodies designed for cross-system use.

Research Advantages At-a-Glance

- ✓ **In vivo-ready, ultra-pure formulations** engineered to protect organoid biology
- ✓ **Full-lot validation** ensures reproducibility organoid systems can trust
- ✓ **Ready-to-ship availability** to accelerate study start and reduce evaluation cycles

Featured Organoid Antibodies

Target	Cat. #	Clone	Reactivities	Applications
PD-1	BE0146	RMP1-14	Mouse	<i>In vitro</i> Organoids/Organ-on-Chip, <i>In vivo</i> blocking of PD-1/PD-L signaling
PD-L1	BE0101	10F.9G2™	Mouse	<i>In vitro</i> Organoids/Organ-on-Chip, <i>In vivo/in vitro</i> blockade, IF, IHC, FC, WB*
IFN γ	BE0055	XMG1.2	Mouse	<i>In vitro</i> Organoids/Organ-on-Chip, <i>In vivo/in vitro</i> neutralization, ELISPOT, FC, WB*
4-1BB	BE0239	CD137	Mouse	<i>In vitro</i> Organoids/Organ-on-Chip, <i>In vivo/in vitro</i> stimulation
CTLA-4	BE0164	9D9	Mouse	<i>In vitro</i> Organoids/Organ-on-Chip, <i>In vivo</i> neutralization, WB, <i>in vivo</i> intra-tumoral regulatory

*IF= Immunofluorescence; IHC = Immunohistochemistry; FC = Flow Cytometry; WB = Western Blot

Applications of Bio X Cell Organoid Antibodies

- ✓ Immune checkpoint modulation in tumor organoids
- ✓ Cytokine and chemokine pathway interrogation
- ✓ Immune cell-organoid co-culture studies
- ✓ Barrier function and tissue integrity modeling
- ✓ Drug mechanism and biosimilar evaluation
- ✓ Apoptosis and cell fate regulation

Advance Your Translational Research with Trusted Antibody Solutions



- ✓ Extensive antibody portfolio features largest catalog of functional antibodies for *in vivo* research
- ✓ Contract services provide custom formulation and conjugation services tailored to your research needs
- ✓ International supply network, anchored by facilities in the US, Germany, and China, delivers products rapidly and reliably



Antibody Solutions for Breakthrough Discovery

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