



Empowering Neuroscience with Precision Antibodies

In vivo-optimized tools for neuroinflammation,
neurodegeneration, and CNS-targeted research



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The brain's complexity and immune privilege create unique challenges for studying neuroinflammation and CNS-targeted therapies. Reliable and reproducible tools are critical, yet antibody performance issues, variable quality, and limited validation often slow progress. Bio X Cell overcomes these barriers with rigorously tested, functional antibodies that deliver consistency in neuroinflammatory research, including *in vivo* models, translational 2D and 3D cell cultures, and organoid/spheroid work.

From neuroinflammatory disease models to whole-brain clearing or advanced *in vivo* imaging needs, Bio X Cell enables functional neuroscience studies that advance neuroscience discovery.

Why Choose Bio X Cell?

Cited in Nearly 30,000 Publications. Trusted Worldwide.



In vivo ready, custom conjugation ready formulations



Catalog and custom antibodies available from milligrams to grams, scaling with your research



Functional formulations validated for *in vivo* and *in vitro* organoid/spheroid studies



Widely cited in neuroscience and translational research



Exceptional quality & purity

- Formulated for *in vivo* use
- Unmatched lot-to-lot consistency
- ≤1 EU/mg endotoxin level
- ≥95% Purity
- No added carriers or preservatives



PhD-level technical support



Antibodies available globally with rapid shipping



Lot-specific certificates of analysis available on demand

Products

Product Categories for Neuroscience Applications



InVivoMAb™ Antibodies

Functional monoclonals for *in vivo* models of neuroinflammation and neurodegeneration



Conjugated Antibodies

Tagged antibodies for whole-brain clearing, flow cytometry, or imaging



InVivoPlus™ Antibodies

High-QC antibodies for publication-sensitive brain research



Isotype Controls

CNS-compatible controls for immune cell targeting experiments



RecombiMAb™ Antibodies

Recombinant monoclonals for lot-stable longitudinal studies



Fusion Proteins

Functional constructs for modulating neuroimmune signaling



InVivoSIM™ Biosimilars

Preclinical biosimilars to model CNS-targeted immunotherapies



ReadyTag™ Antibodies

Anti-tag antibodies useful for detecting tagged proteins

Products

Featured Products

With a growing catalog of over 700+ antibodies, Bio X Cell offers rapid global shipping which ensures access to critical reagents won't delay your next functional study

Antigen	Reactivities Available	Research Application
TREM-2 *	Mouse	Microglial survival/phagocytosis
CD11b *	Human, Mouse	Microglial cell profiling and depletion
CD45	Mouse	Differentiation of resident microglial cells vs infiltrating leukocytes
TNF-α †	Human, Mouse, Rabbit, Rat	Neuroinflammation in mouse models
IL-1β †	Human, Mouse, Rat, Monkey	Blockade pro-inflammatory cytokines for blood-brain barrier
TIM-3 †	Human, Mouse	Modulator of T cell responses in CNS

* Recombinant Format Available
† Biosimilar Format Available

Applications

Unlocking the Immune-CNS Interface

Bio X Cell antibodies enable detailed investigation of immune processes in the brain and CNS, including:

- ✓ Microglial depletion and functional modulation
- ✓ Blood-brain barrier immune infiltration studies
- ✓ Neuroinflammatory cytokine blockade
- ✓ Neurodegenerative model validation
- ✓ Brain immune cell profiling via flow cytometry or IHC
- ✓ Whole-brain clearing and antibody-based detection
- ✓ Neuroimmune signaling and receptor blockade
- ✓ CNS-targeted antibody therapy modeling

Custom Services

Built for the Complexity of Brain Research

Neuroscience research often requires high-volume, low-endotoxin antibodies that meet strict delivery and safety profiles for CNS applications. Bio X Cell provides:

**Custom Formulation**

Optimized for intracerebral, intrathecal, or systemic delivery

**Custom Conjugation**

Tag your antibodies for advanced neuroimaging or clearing studies

**Recombinant Antibody Services**

Ensure continuity for long-term neurodegeneration research

**Bulk Supply**

Milligram to kilogram-scale production to support whole-brain workflows



Antibody Solutions for Breakthrough Discovery

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