

Technical Data Sheet

Bispecific anti-mouse PD-1 x anti-mouse/human/rat/monkey ICOS (LALA-PG)



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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 Website Link: <https://bioxcell.com/bispecific-anti-mouse-pd-1-x-anti-mouse-human-rat-monkey-icos-lala-pg-cpb529>

Product Information

Catalog Number: CPB529
Clone: derived from clones 29F.1A12 and C398.4A
Isotype: Mouse IgG2a (LALA-PG), κ
Recommended Isotype Control(s): Bispecific mouse IgG2a (LALA-PG), kappa isotype control
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: LALA-PG
Reported Applications: ELISA
For information on in-vivo applications, please contact technicalservice@bioxcell.com
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: $\leq 0.5\text{EU/mg}$ ($\leq 0.0005\text{EU}/\mu\text{g}$)
Determined by LAL assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: 0.2 μm filtration
Production: Purified from mammalian cell supernatant in an animal-free facility
Purification: Protein A
RRID:
Molecular Weight: 146.8

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

CPB529 is a 1+1 bivalent bispecific designed to simultaneously target mouse programmed cell death protein 1 (PD-1, CD279) and mouse/human/rat/monkey inducible T cell co-stimulator (ICOS). CPB529 contains the murine IgG2a constant region to reduce immunogenicity and the formation of anti-drug antibodies (ADAs) in mouse models. This bispecific was designed to function as a "molecular switch," effectively shifting the immune balance in the tumor microenvironment (TME) from a suppressed state to an activated, cytotoxic state by combining checkpoint blockade with costimulatory engagement in a single molecule. Blocking PD-1 prevents the delivery of inhibitory signals that otherwise drive T-cell exhaustion and tumor

evasion and facilitates T-cell proliferation and cytokine production. Engagement of ICOS provides critical costimulatory signals that drive T-cell proliferation, survival, and the production of effector cytokines like IFN- γ . The anti-PD-1 \times anti-ICOS bispecific approach leverages the synergy between removing an inhibitory block (PD-1) and providing a positive stimulus (ICOS), aiming to convert immunologically "cold" or resistant tumors into "hot" responsive environments.

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/bispecific-anti-mouse-pd-1-x-anti-mouse-human-rat-monkey-icos-lala-pg-cpb529?utm_source=cr9k1b#tab_references or scan the QR code below.



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