

# Technical Data Sheet

## RecombiMAb anti-mouse ICOSL (CD275) (LALA-PG)



**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:** CP046  
**Clone:** HK5.3-CP046  
**Isotype:** Mouse IgG2a,  $\kappa$   
**Recommended Isotype Control(s):** RecombiMAb mouse IgG2a (LALA-PG) isotype control, anti-hen egg lysozyme  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Mutations:** LALA-PG  
**Immunogen:** Mouse B7-RP1 transfected cell line  
**Reported Applications:** *in vivo* ICOSL neutralization\*  
\*Reported for the original rat IgG2a HK5.3 antibody  
**Formulation:** PBS, pH 7.0  
Contains no stabilizers or preservatives  
**Endotoxin:** <1EU/mg (<0.001EU/ $\mu$ g)  
Determined by LAL gel clotting assay  
**Purity:** >95%  
Determined by SDS-PAGE  
**Sterility:** 0.2  $\mu$ m filtration  
**Production:** Purified from HEK293 cell supernatant in an animal-free facility  
**Purification:** Protein G  
**Aggregation:** <5%  
Determined by SEC  
**RRID:**  
**Molecular Weight:** 150 kDa

### 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

The HK5.3-CP046 monoclonal antibody is a chimeric version of the original HK5.3 antibody. The variable domain sequences are identical to the original HK5.3 but the constant region sequences have been switched from rat IgG2a to mouse IgG2a. The HK5.3-CP046 antibody also contains a LALA-PG mutation in the Fc fragment rendering it unable to bind to endogenous Fc $\gamma$  receptors. The HK5.3-CP046 monoclonal antibody reacts with mouse ICOSL (inducible T cell co-stimulator ligand) also known as CD275, B7RP-1, and B7-H2. ICOSL is a 40 kDa immune checkpoint protein belonging to

the Ig receptor superfamily. Upon ICOSL binding, ICOS signaling co-stimulates T and B cell responses. The ligand is expressed on antigen presenting cells including splenic B cells, dendritic cells, and macrophages. ICOS signaling is also thought to be important for maintaining regulatory T cell homeostasis. The HK5.3 antibody has been shown to block the binding of ICOSL to ICOS both in vitro and in vivo. HK5.3 treatment of mice has been reported to lead to a loss of regulatory T cells.

## 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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### Bio X Cell, LLC

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*Not for resale.*

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