

# PRODUCT DATA SHEET

## ANTI-HUMAN INDUCIBLE CO-STIMULATOR LIGAND (ICOSL)

### MONOCLONAL ANTIBODY

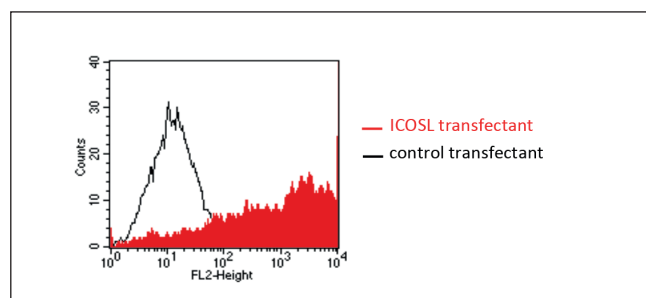
#### PRODUCT INFORMATION

<b>Catalog Number:</b>	GM-0301	<b>Clone:</b>	GM-13C1
<b>Description:</b>	purified monoclonal mouse antibody	<b>Specificity:</b>	anti-human Inducible co-stimulator ligand (ICOSL)
<b>Isotype:</b>	IgG1/kappa	<b>Purification:</b>	Protein G
<b>Storage:</b>	short term: 2°C – 8°C; long term: –20°C (avoid repeated freezing and thawing)	<b>Buffer:</b>	phosphate buffered saline, pH 7.2
<b>Immunogen:</b>	genetic immunization with cDNA encoding human ICOSL (extracellular domain)	<b>Selection:</b>	based on recognition of the complete native protein expressed on transfected mammalian cells

#### WORKING DILUTIONS

<b>Flow cytometry:</b>	1.2 µg/10 <sup>6</sup> cells
<b>CELISA:</b>	1:200 – 1:400
For each application a titration should be performed to determine the optimal concentration.	

#### SPECIFICITY TESTING BY FLOW CYTOMETRY



**Fig. 1:** FACS analysis of BOSC23 cells using GM-13C1 Cat.# GM-0301. BOSC23 cells were transiently transfected with an expression vector encoding either ICOSL (red curve) or an irrelevant protein (control transfectant: black curve). Binding of GM-13C1 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with ICOSL transfected cells.

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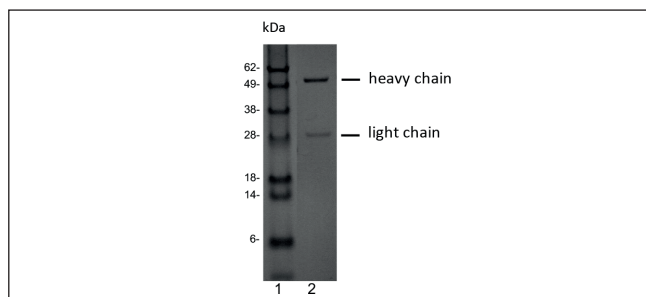
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Page 1 / 2

## SDS-PAGE ANALYSIS OF GM-13C1

The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by SDS-Page (Fig. 2).



**Fig. 2:** SDS-PAGE analysis of purified GM-13C1 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified GM-13C1 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.

## BACKGROUND

Inducible co-stimulator ligand (ICOSL) is a specific ligand on antigen-presenting cells and cells of the peripheral tissue that binds to the inducible co-stimulator receptor (ICOS)(1). ICOS belongs to the CD28/CD152 receptor family that regulates T-cell activation and function. ICOSL is expressed on monocytes, dendritic cells and B cells and can be induced by inflammatory stimuli in peripheral tissue. Binding to ICOSL delivers a co-stimulatory signal for T cell proliferation and cytokine secretion (2, 3).

## REFERENCES

1. **Richter G, Hayden-Ledbetter M, Irgang M, Ledbetter JA, Westermann J, Korner I, Daemen K, Clark EA, Aicher A and Pezzutto A (2001).** Tumor Necrosis Factor- $\alpha$  Regulates the Expression of Inducible Costimulator Receptor Ligand on CD34+ Progenitor Cells during Differentiation into Antigen Presenting Cells. *J Biol Chem* 276: 45686-45693.
2. **Richter G and Burdach S (2004).** ICOS: a new costimulatory ligand/receptor pair and its role in T-cell activation. *Onkologie* 27(1): 91-5
3. **Aicher A, Hayden-Ledbetter M, Brady WA, Pezzutto A, Richer G, Magaletti D, Buckwalter S, Ledbetter JA and Clark EA (2000).** Characterization of human inducible costimulator ligand expression and function. *J Immunol* 1;164(9):4689-96

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Page 2 / 2