



# Rat Anti-Mouse ICOS Monoclonal antibody, clone 7E.17G9 (CABT-L4381)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

The 7E.17G9 monoclonal antibody reacts with mouse ICOS (inducible T cell co-stimulator). ICOS is a 47-57 kDa homodimeric glycoprotein belonging to the CD28 family of costimulatory molecules. ICOS is expressed on activated T cells and upon ICOSL binding, 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 7E.17G9 antibody has been shown to block the binding of ICOSL to ICOS in vivo.

### Target

Mouse ICOS

### Immunogen

Mouse ICOS cDNA and ICOS hexahistidine fusion protein

### Isotype

IgG2b, κ

### Source/Host

Rat

### Species Reactivity

Mouse

### Clone

7E.17G9

### Purification

Protein G purified.  
Purity>95%. Determined by SDS-PAGE

### Conjugate

Functional Grade

### Applications

in vivo blocking of ICOS/ICOSL signaling, FC

### Molecular Weight

150 kDa

### Format

0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility

<b>Concentration</b>	Lot specific
<b>Size</b>	5 mg
<b>Buffer</b>	PBS, pH 8.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]  Endotoxin level: <2EU/mg (<0.002EU/µg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB01
<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	The protein encoded by this gene belongs to the CD28 and CTLA-4 cell-surface receptor family. It forms homodimers and plays an important role in cell-cell signaling, immune responses, and regulation of cell proliferation. [provided by RefSeq, Jul 2008]
<b>Keywords</b>	ICOS;inducible T-cell co-stimulator;inducible T-cell costimulator;activation inducible lymphocyte immunomediatory molecule;AILIM;CD278;inducible costimulator;activation-inducible lymphocyte immunomediatory molecule;CVID1;MGC39850;

## GENE INFORMATION

<b>Official Symbol</b>	inducible T-cell co-stimulator
<b>Synonyms</b>	ICOS; inducible T-cell co-stimulator; inducible T-cell costimulator; activation inducible lymphocyte immunomediatory molecule; AILIM; CD278; inducible costimulator; activation-inducible lymphocyte immunomediatory molecule; CVID1; MGC39850;
<b>References</b>	Bauche, D., et al. (2018). "LAG3(+) Regulatory T Cells Restrain Interleukin-23-Producing CX3CR1(+) Gut-Resident Macrophages during Group 3 Innate Lymphoid Cell-Driven Colitis." <i>Immunity</i> 49(2): 342-352 e345. PubMed;