



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

Concentration	Lot specific
Size	5 mg
Buffer	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
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	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]
Keywords	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

Official Symbol	inducible T-cell co-stimulator
Synonyms	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;
References	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." Immunity 49(2): 342-352 e345. PubMed;