



Rat Anti-Mouse ICOSL (CD275) Monoclonal antibody, clone HK5.3 (CABT-L4370)

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

PRODUCT INFORMATION

Product Overview

The HK5.3 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.

Target	Mouse ICOSL (CD275)
Immunogen	Mouse B7-RP1 transfected cell line
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	HK5.3
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo ICOSL neutralization
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 7.0. 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-LB04
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	Ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion; induces also B-cell proliferation and differentiation into plasma cells. Could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function.
Keywords	ICOSL; icos ligand; B7h; GI50; GL50; B7-H2; LICOS; B7RP-1; GL50-B; ICOS-L; Icoslg; Ly115; AU044799; BG071784; mKIAA0653; ICOS ligand; B7 homolog 2; B7-like protein GI50; B7-related protein 1;

GENE INFORMATION

Official Symbol	icos ligand
Synonyms	ICOSL; icos ligand; B7h; GI50; GL50; B7-H2; LICOS; B7RP-1; GL50-B; ICOS-L; Icoslg; Ly115; AU044799; BG071784; mKIAA0653; ICOS ligand; B7 homolog 2; B7-like protein GI50; B7-related protein 1;
References	Raynor, J., et al. (2015). "IL-6 and ICOS Antagonize Bim and Promote Regulatory T Cell Accrual with Age." J Immunol 195(3): 944-952. PubMed; Choi, Y. S., et al. (2011). "ICOS receptor instructs T follicular helper cell versus effector cell differentiation via induction of the transcriptional repressor Bcl6." Immunity 34(6): 932-946. PubMed;