



Rat Anti-Mouse CD70 Monoclonal antibody, clone FR70 (CABT-L4315)

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

PRODUCT INFORMATION

Product Overview	The FR70 monoclonal antibody reacts with mouse CD70, a 30-33 kDa type II transmembrane glycoprotein and a member of the TNF superfamily. CD70 is expressed by activated mouse T and B lymphocytes and dendritic cells.
Target	Mouse CD70
Immunogen	BALB/c mouse B lymphoma A20.2J
Isotype	IgG2b, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	FR70
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD70 blockade, in vitro CD70 blockade, FC
Molecular Weight	150 kDa
Format	0.2 μ M 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	The FR70 monoclonal antibody reacts with mouse CD70, a 30-33 kDa type II transmembrane glycoprotein and a member of the TNF superfamily. CD70 is expressed by activated mouse T and B lymphocytes and dendritic cells. CD70 is a ligand for CD27 and their interaction promotes T and B cell cross-stimulation and co-stimulation of B cell proliferation and immunoglobulin production. Cells expressing CD70 have been shown to co-stimulate T cell proliferation and induce cytokine production. The FR70 antibody is reported to block CD70 binding to CD27.
Keywords	CD70;CD70 antigen;Cd27l;CD27LG;Tnfsf7;CD27-L;CD27 ligand;Ki-24 antigen;tumor necrosis factor ligand superfamily member 7;tumor necrosis factor (ligand) superfamily, member 7;

GENE INFORMATION

Official Symbol	CD70 antigen
Synonyms	CD70; CD70 antigen; Cd27l; CD27LG; Tnfsf7; CD27-L; CD27 ligand; Ki-24 antigen; tumor necrosis factor ligand superfamily member 7; tumor necrosis factor (ligand) superfamily, member 7;
References	Quinn, M., et al. (2015). "Memory T cells specific for murine cytomegalovirus re-emerge after multiple challenges and recapitulate immunity in various adoptive transfer scenarios." J Immunol 194(4): 1726-1736. PubMed;Baumgartner, C. K., et al. (2012). "A TCR affinity threshold regulates memory CD4 T cell differentiation following vaccination." J Immunol 189(5): 2309-2317. PubMed;Kurche, J. S., et al. (2010). "Comparison of OX40 ligand and CD70 in the promotion of CD4+ T cell responses." J Immunol 185(4): 2106-2115. PubMed;