



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

**Concentration**

Lot specific

**Size**

5 mg

<b>Buffer</b>	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
<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

**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

<b>Official Symbol</b>	CD70 antigen
<b>Synonyms</b>	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;
<b>References</b>	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." <i>J Immunol</i> 194(4): 1726-1736. PubMed; Baumgartner, C. K., et al. (2012). "A TCR affinity threshold regulates memory CD4 T cell differentiation following vaccination." <i>J Immunol</i> 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." <i>J Immunol</i> 185(4): 2106-2115. PubMed;