

Mouse CD70 Monoclonal Antibody | anti-CD70 antibody

anti-human CD70-R-PE

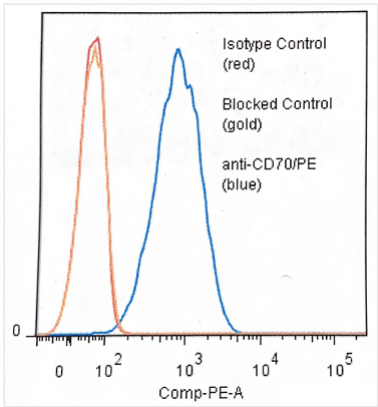
CATALOG #	HOST	APPLICATIONS
AAA78149	Mouse	Immunohistochemistry, Immunocytochemistry, ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

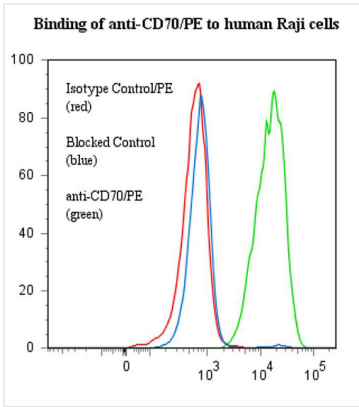
CD70; Monoclonal Antibody; anti-human CD70-R-PE; Monoclonal anti-human CD70/R-PE; anti-CD70 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	BU69
Form/Format	50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN3 (as a preservative).
Sequence Length	193
Applicable Applications for anti-CD70 antibody	IHC (Immunohistochemistry), ICC (Immunocytochemistry), ELISA, FCM/FACS (Flow Cytometry)
Performance	Five x 10 ⁵ cultured Raji human tumor cells were washed and incubated 45 minutes on ice with 80 ul of anti-CD70/R-PE at a 1:50 dilution (10 ug/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.33 log ₁₀ fluorescent units when compared to a Mouse IgG1/PE negative control () at a similar concentration. Binding was blocked when pre incubated 10 minutes with 20 ul of 0.5 mg/ml anti-CD70 antibody ()
Production	Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody aPE were removed using size exclusion chromatography. Antibody conjugate is at 0.5 mg/ml with PE: Ab molar ratio of 1.21.
Immunogen	Human WM-1 (Waldenström's macroglobulinemia) cell line
Preparation and Storage	Store at 2-5°C. Do not freeze! Protect from light. Product should retain activity for at least after shipping date when stored as recommended.



Application Data
Binding of anti-CD70/PE to human Raji cells



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD70 antibody	Information: Human CD70 is not present on resting lymphocytes. CD70 is expressed after activation on about 20% of T cells and on about 70% of B cells. CD70 is a ligand for CD27 and it is also a member of the tumor necrosis factor gene family. Antibody BU69 recognizes CD70 molecule of approximately 30 kd. Antibody BU69 inhibits T cell proliferation induced by dendritic cells.
References	R.Q. Hintzen, et al, (1994) J Immunol 152: 1762-1773. M.R. Bowman, et al, (1994) J Immunol 152: 1756-1761. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1137-1138. K. Agematsu, et al, (1995) J Immunol 154: 3627-3635.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507605
NCBI GeneID	970
NCBI Accession #	NP_001243.1
NCBI GenBank Nucleotide #	NM_001252.4
NCBI Official Full Name	CD70 antigen
NCBI Official Synonym Full Names	CD70 molecule
NCBI Official Symbol	CD70
NCBI Official Synonym Symbols	CD27L; CD27LG; TNFSF7
NCBI Protein Information	CD70 antigen; CD27-L; CD27 ligand; Ki-24 antigen; surface antigen CD70; tumor necrosis factor ligand superfamily member 7; tumor necrosis factor (ligand) superfamily, member 7
UniProt Protein Name	CD70 antigen
UniProt Gene Name	CD70
UniProt Synonym Gene Names	CD27L; CD27LG; TNFSF7; CD27-L
UniProt Entry Name	CD70_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.