

Basic Information

Product Name	Anti-CD70 Antibody	
Gene Name	CD70	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	mouse, rat	
Tested Application	WB, IHC, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived mouse Cd70 recombinant protein (Position: C36-Q191).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	30 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

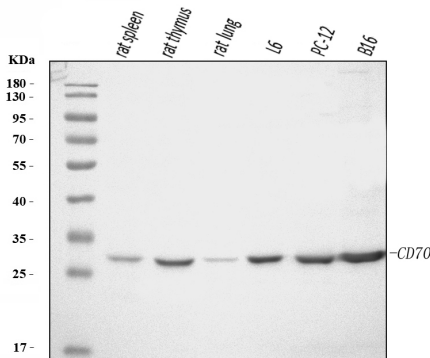
Background Information

CD70 (Cluster of Differentiation 70) is a protein that in humans is encoded by CD70 gene. The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for TNFRSF27/CD27. It is a surface antigen on activated, but not on resting, T and B lymphocytes. It induces proliferation of costimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation. This cytokine is also reported to play a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobulin synthesis.

Reference

Anti-CD70 Antibody 被引用在1文献中。

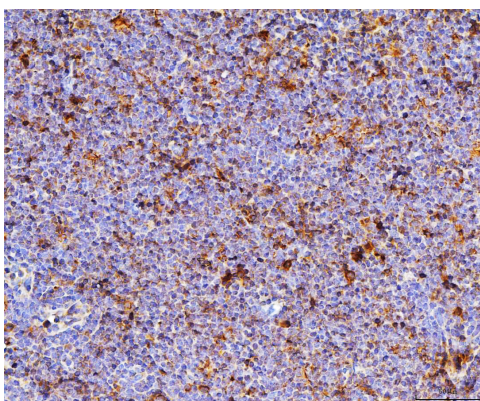
Selected Validation Data



Western blot analysis of CD70 using anti-CD70 antibody (A02853-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat spleen tissue lysates,
Lane 2: rat thymus tissue lysates,
Lane 3: rat lung tissue lysates,
Lane 4: rat C6 whole cell lysates,
Lane 5: PC-12 whole cell lysates,
Lane 6: B16 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CD70 antigen affinity purified polyclonal antibody (A02853-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CD70 at approximately 30 kDa. The expected band size for CD70 is at 22 kDa.



IHC analysis of CD70 using anti-CD70 antibody (A02853-2).

CD70 was detected in a paraffin-embedded section of mouse lymphonode tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-CD70 Antibody (A02853-2) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.