

Rabbit anti-Mouse, Rat Cd70 Polyclonal Antibody | anti-CD70 antibody

Anti-Cd70 Antibody Picoband

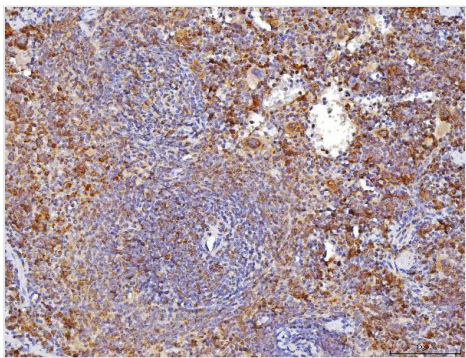
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126264	Rabbit	Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

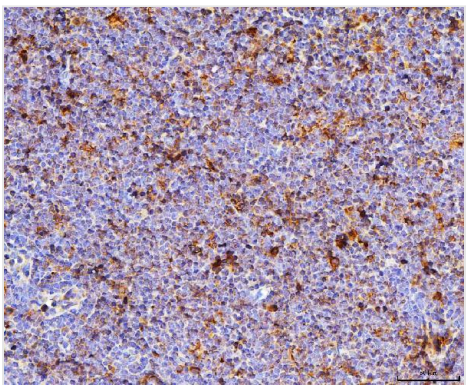
Cd70; Polyclonal Antibody; Anti-Cd70 Antibody Picoband; anti-CD70 antibody

PRODUCT SPECIFICATIONS

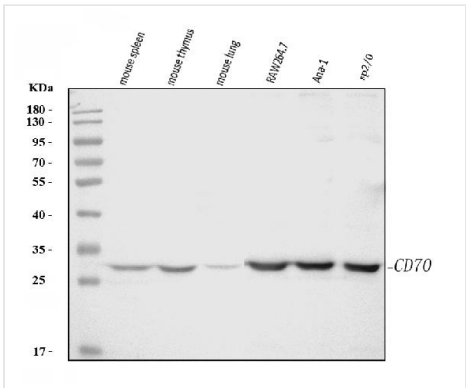
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-CD70 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived mouse Cd70 recombinant protein (Position: C36-Q191).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



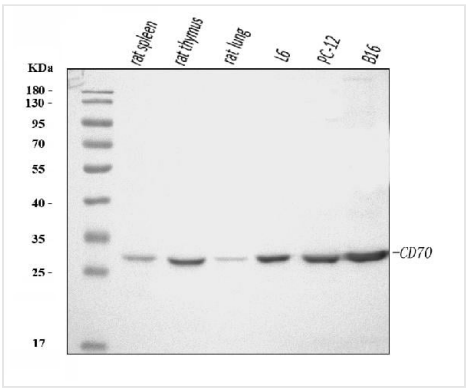
IHC (Immunohistochemistry)
Figure 4. IHC analysis of Cd70 using anti-Cd70 antibody (AAA126264).Cd70 was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Cd70 Antibody (AAA126264) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of Cd70 using anti-Cd70 antibody (AAA126264).Cd70 was detected in a paraffin-embedded section of mouse lymphonode tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Cd70 Antibody (AAA126264) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)
Figure 2. Western blot analysis of Cd70 using anti-Cd70 antibody (AAA126264).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: mouse spleen tissue lysates,Lane 2: mouse thymus tissue lysates,Lane 3: mouse lung tissue lysates,Lane 4: mouse RAW264.7 whole cell lysates,Lane 5: mouse ANA-1 whole cell lysates,Lane 6: mouse SP2/0 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cd70 antigen affinity purified polyclonal antibody (#AAA126264) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cd70 at approximately 30 kDa. The expected band size for Cd70 is at 30 kDa.



WB (Western Blot)
Figure 1. Western blot analysis of Cd70 using anti-Cd70 antibody (AAA126264).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. 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 L6 whole cell lysates,Lane 5: rat PC-12 whole cell lysates,Lane 6: mouse B16 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cd70 antigen affinity purified polyclonal antibody (#AAA126264) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cd70 at approximately 30 kDa. The expected band size for Cd70 is at 30 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CD70 antibody	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.
Product Categories/Family for anti-CD70 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	21362989
NCBI GeneID	21948
UniProt Accession #	O55237
Molecular Weight	21,919 Da
NCBI Official Full Name	CD70 antigen
NCBI Official Synonym Full Names	CD70 antigen
NCBI Official Symbol	Cd70
NCBI Official Synonym Symbols	Cd27l; CD27LG; Tnfsf7
NCBI Protein Information	CD70 antigen; CD27-L; CD27 ligand; Ki-24 antigen; 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_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd70-antibody-immunohistochemistry-western-blot-elisa/126264>