

CD70 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14744c

Specification

CD70 Antibody (Center) - Product Information

Application	WB, IHC-P,E
Primary Accession	P32970
Other Accession	NP_001243.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	21118
Antigen Region	72-101

CD70 Antibody (Center) - Additional Information

Gene ID 970

Other Names

CD70 antigen, CD27 ligand, CD27-L, Tumor necrosis factor ligand superfamily member 7, CD70, CD70, CD27L, CD27LG, TNFSF7

Target/Specificity

This CD70 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-101 amino acids from the Central region of human CD70.

Dilution

WB~~1:1000
IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CD70 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CD70 Antibody (Center) - Protein Information

Name CD70 ([HGNC:11937](#))

Function Expressed at the plasma membrane of B cells, it is the ligand of the CD27 receptor which is specifically expressed at the surface of T cells (PubMed:[28011863](#), PubMed:[28011864](#), PubMed:[8387892](#)). The CD70- CD27 signaling pathway mediates antigen-specific T cell activation and expansion which in turn provides immune surveillance of B cells (PubMed:[28011863](#), PubMed:[28011864](#)).

Cellular Location

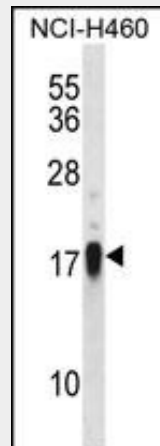
Cell membrane; Single-pass type II membrane protein

CD70 Antibody (Center) - Protocols

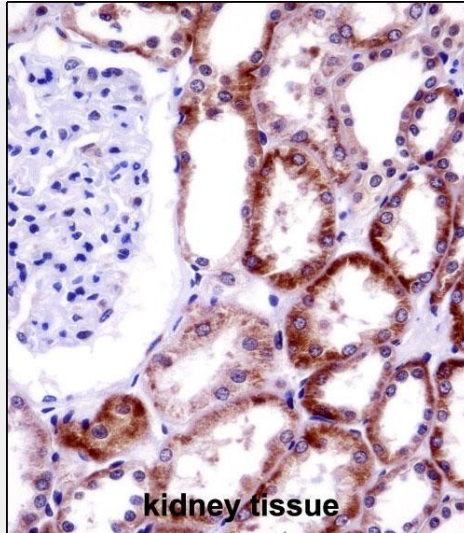
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD70 Antibody (Center) - Images



CD70 Antibody (Center) (Cat. #AP14744c) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the CD70 antibody detected the CD70 protein (arrow).



CD70 Antibody (Center) (AP14744c) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CD70 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

CD70 Antibody (Center) - Background

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.

CD70 Antibody (Center) - References

Arimoto-Miyamoto, K., et al. Immunology 130(1):137-149(2010)
Shaw, J., et al. Blood 115(15):3051-3057(2010)
Yu, S.E., et al. Mol. Cells 29(2):217-221(2010)
Kozłowska, A., et al. J. Rheumatol. 37(1):53-59(2010)
Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :

CD70 Antibody (Center) - Citations

- [Inherited CD70 deficiency in humans reveals a critical role for the CD70-CD27 pathway in immunity to Epstein-Barr virus infection.](#)