

Store at  
-20C  
#72094

# CD70 Antibody



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	25-30	Rabbit	#P32970	970

## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

CD70 Antibody recognizes endogenous levels of total CD70 protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly187 of human CD70 protein. Antibodies are purified by peptide affinity chromatography.

## Background

CD70 is a type II transmembrane glycoprotein and a member of the tumor necrosis factor ligand superfamily (TNFSF), also known as CD27L and TNFSF7. It is normally expressed on medullary thymic epithelial cells. Its expression is induced on activated lymphoid cells (B cells, T cells, and NK cells) and dendritic cells. CD70 is a ligand for CD27, a co-stimulatory receptor that plays an important role in T cell activation and proliferation (1,2). CD70 overexpression has been reported in various tumors such as renal cell carcinoma, glioblastoma, and non-small cell lung carcinoma and it's being actively pursued as a therapeutic target (3-6).

## Background References

1. Borst, J. et al. (2005) *Curr Opin Immunol* 17, 275-81.
2. Nolte, M.A. et al. (2009) *Immunol Rev* 229, 216-31.
3. Wischhusen, J. et al. (2002) *Cancer Res* 62, 2592-9.
4. Junker, K. et al. (2005) *J Urol* 173, 2150-3.
5. Jacobs, J. et al. (2015) *Oncotarget* 6, 13462-75.
6. van de Ven, K. and Borst, J. (2015) *Immunotherapy* 7, 655-67.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human

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