

# CMTM6 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M	Endogenous	22	Rabbit	#Q9NX76	54918

## 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

CMTM6 Antibody recognizes endogenous levels of total CMTM6 protein. This antibody does not cross-react with CMTM4 protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala176 of human CMTM6 protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

CKLF-like MARVEL transmembrane domain-containing protein 6 (CMTM6) is a member of the chemokine-like factor (CKLF)-like MARVEL transmembrane domain-containing family (1). CMTM6 stabilizes plasma membrane expression of PD-L1, an immune inhibitory ligand critical for immune tolerance to self and anti-tumor immunity (2,3). CMTM6 associates with PD-L1 at recycling endosomes, where it protects PD-L1 from being targeted for lysosomal degradation by preventing STUB1-mediated PD-L1 ubiquitination (2,3). CMTM6 may stabilize PD-L1 expression on antigen presenting cells and potentiate inhibitory signaling by PD-1 on T cells, triggering T cell inhibition and exhaustion. CMTM6 has also been shown to interact with CD58, ARG1, ENO1, and TMPO (2). Due to the role of CMTM6 in regulating the immune system, it is being investigated as an immunotherapeutic target for the treatment of cancer.

## Background References

1. Han, W. et al. (2003) *Genomics* 81, 609-17.
2. Burr, M.L. et al. (2017) *Nature* 549, 101-5.
3. Mezzadra, R. et al. (2017) *Nature* 549, 106-10.

## 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 **M:** Mouse

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