

Store at
-20°C
#55829**CMTM6 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, IP	M	Endogenous	22	Rabbit	#Q9CZ69	67213

Product Usage Information**Application**Western Blotting
Immunoprecipitation**Dilution**1:1000
1:50**Storage**Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.***Specificity/Sensitivity**

CMTM6 Antibody recognizes endogenous levels of total mouse CMTM6 protein. This antibody cross-reacts with an unidentified protein of 35 kDa, 55 kDa, and 75 kDa in some cell extracts.

Source / Purification

Polyclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala176 of mouse CMTM6 protein. Antibodies are purified by 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key**W:** Western Blotting **IP:** Immunoprecipitation**Cross-Reactivity Key****M:** Mouse**Trademarks and Patents**

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