

Store at
-20C
#98085**CAPAM/PCIF1 Antibody**

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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Rabbit	UniProt ID: #Q9H4Z3	Entrez-Gene Id: 63935
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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

CAPAM/PCIF1 Antibody recognizes endogenous levels of total CAPAM/PCIF1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro229 of human CAPAM/PCIF1 protein. Antibodies are purified by peptide affinity chromatography.

Background

Phosphorylated CTD Interacting Factor 1 (PCIF1), also known as CAPAM, is a WW domain-containing protein that was initially discovered to interact with phosphorylated RNA Polymerase II, where it inhibits CTD phosphatase activity of SCP1 to negatively affect gene expression (1,2). CAPAM/PCIF1 has shown to be the methyltransferase responsible for methylating adenosine at the second position of mRNAs, promoting their translation (3,4).

Background References

1. Fan, H. et al. (2003) *Biochem Biophys Res Commun* 301, 378-85.
2. Hirose, Y. et al. (2008) *Biochem Biophys Res Commun* 369, 449-55.
3. Akichika, S. et al. (2019) *Science* 363, pii: eaav0080. doi: 10.1126/science.aav0080.
4. Cowling, V.H. (2019) *Trends Biochem Sci* 44, 183-5.

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 **R:** Rat **Mk:** Monkey

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