

**PIMT (PIPMT) Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP1921b****Specification**

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**PIMT (PIPMT) Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q96RS0](#)**PIMT (PIPMT) Antibody (Center) Blocking peptide - Additional Information****Gene ID** 96764**Other Names**

Trimethylguanosine synthase, 211-, CLL-associated antigen KW-2, Cap-specific guanine-N2 methyltransferase, Hepatocellular carcinoma-associated antigen 137, Nuclear receptor coactivator 6-interacting protein, PRIP-interacting protein with methyltransferase motif, PIMT, PIPMT, TGS1, HCA137, NCOA6IP, PIMT

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1921b](/product/products/AP1921b) was selected from the Center region of human PIPMT. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PIMT (PIPMT) Antibody (Center) Blocking peptide - Protein Information****Name** TGS1**Synonyms** HCA137, NCOA6IP, PIMT**Function**

Catalyzes the 2 serial methylation steps for the conversion of the 7-monomethylguanosine (m(7)G) caps of snRNAs and snoRNAs to a 2,2,7-trimethylguanosine (m(2,2,7)G) cap structure. The enzyme is specific for guanine, and N7 methylation must precede N2 methylation. Hypermethylation of the m7G cap of U snRNAs leads to their concentration in nuclear foci, their colocalization with coilin and the formation of canonical Cajal bodies (CBs). Plays a role in transcriptional regulation.

**Cellular Location**

Cytoplasm. Nucleus, Cajal body. Nucleus, nucleolus. Note=A 90 kDa isoform is found in the nucleus while a 55 kDa isoform is found in the cytoplasm and colocalizes with the tubulin network.

**Tissue Location**

Ubiquitously expressed. High expression in heart, skeletal muscle, kidney, liver and placenta

**PIMT (PIPMT) Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**PIMT (PIPMT) Antibody (Center) Blocking peptide - Images****PIMT (PIPMT) Antibody (Center) Blocking peptide - Background**

Nuclear receptor coactivators participate in the transcriptional activation of specific genes by nuclear receptors. PIPMT contains a 9-amino acid methyltransferase motif I (VVDAFCGVG) and an invariant segment (GXXGXXI) found in K-homology motifs of many RNA-binding proteins. Immunofluorescence studies shows that PIPMT and PRIP proteins are colocalized in the nucleus. PIPMT binds 5-adenosyl-L-methionine, the methyl donor for the methyltransfer reaction, and it also binds RNA, suggesting that it is an RNA methyltransferase. Overexpression of PIPMT enhances the transcriptional activity of PPARG and RXR, and this enhancement is further stimulated by overexpression of PRIP, suggesting that PIPMT is a component of nuclear receptor signal transduction that acts through PRIP.

**PIMT (PIPMT) Antibody (Center) Blocking peptide - References**

Beausoleil, S.A., et al., Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135 (2004).Enunlu, I., et al., Biochem. Biophys. Res. Commun. 309(1):44-51 (2003).Surapureddi, S., et al., Proc. Natl. Acad. Sci. U.S.A. 99(18):11836-11841 (2002).Misra, P., et al., J. Biol. Chem. 277(22):20011-20019 (2002).Wang, Y., et al., J. Immunol. 169(2):1102-1109 (2002).