



href="http://www.uniprot.org/citations/23102700" target="\_blank">>23102700</a>, PubMed:<a href="http://www.uniprot.org/citations/9000529" target="\_blank">>9000529</a>, PubMed:<a href="http://www.uniprot.org/citations/30699359" target="\_blank">>30699359</a>). Implicated in wide ranging cellular processes, including apoptosis, differentiation, DNA damage response, cell survival, regulation of ion channels or circadian rhythms, in response to steroid and thyroid hormones, calcium, fatty acids, TGF-beta as well as oxidative and genotoxic stresses (PubMed:<a href="http://www.uniprot.org/citations/14734805" target="\_blank">>14734805</a>, PubMed:<a href="http://www.uniprot.org/citations/14764652" target="\_blank">>14764652</a>, PubMed:<a href="http://www.uniprot.org/citations/14871926" target="\_blank">>14871926</a>, PubMed:<a href="http://www.uniprot.org/citations/15383005" target="\_blank">>15383005</a>, PubMed:<a href="http://www.uniprot.org/citations/15546861" target="\_blank">>15546861</a>, PubMed:<a href="http://www.uniprot.org/citations/16260606" target="\_blank">>16260606</a>, PubMed:<a href="http://www.uniprot.org/citations/16790549" target="\_blank">>16790549</a>, PubMed:<a href="http://www.uniprot.org/citations/16892053" target="\_blank">>16892053</a>, PubMed:<a href="http://www.uniprot.org/citations/19176521" target="\_blank">>19176521</a>, PubMed:<a href="http://www.uniprot.org/citations/19948726" target="\_blank">>19948726</a>, PubMed:<a href="http://www.uniprot.org/citations/21144835" target="\_blank">>21144835</a>, PubMed:<a href="http://www.uniprot.org/citations/22399290" target="\_blank">>22399290</a>, PubMed:<a href="http://www.uniprot.org/citations/22781750" target="\_blank">>22781750</a>, PubMed:<a href="http://www.uniprot.org/citations/23102700" target="\_blank">>23102700</a>, PubMed:<a href="http://www.uniprot.org/citations/9000529" target="\_blank">>9000529</a>, PubMed:<a href="http://www.uniprot.org/citations/30699359" target="\_blank">>30699359</a>). Participates in the control of DNA damage response mechanisms such as checkpoint activation and DNA damage repair through, for instance, the regulation ATM/ATR-signaling and dephosphorylation of PRKDC and TP53BP1 (PubMed:<a href="http://www.uniprot.org/citations/14871926" target="\_blank">>14871926</a>, PubMed:<a href="http://www.uniprot.org/citations/16260606" target="\_blank">>16260606</a>, PubMed:<a href="http://www.uniprot.org/citations/21144835" target="\_blank">>21144835</a>). Inhibits ASK1/MAP3K5-mediated apoptosis induced by oxidative stress (PubMed:<a href="http://www.uniprot.org/citations/23102700" target="\_blank">>23102700</a>). Plays a positive role in adipogenesis, mainly through the dephosphorylation and activation of PPARG transactivation function (By similarity). Also dephosphorylates and inhibits the anti- adipogenic effect of NR3C1 (By similarity). Regulates the circadian rhythms, through the dephosphorylation and activation of CSNK1E (PubMed:<a href="http://www.uniprot.org/citations/16790549" target="\_blank">>16790549</a>). May modulate TGF-beta signaling pathway by the regulation of SMAD3 phosphorylation and protein expression levels (PubMed:<a href="http://www.uniprot.org/citations/22781750" target="\_blank">>22781750</a>). Dephosphorylates and may play a role in the regulation of TAU/MAPT (PubMed:<a href="http://www.uniprot.org/citations/15546861" target="\_blank">>15546861</a>). Through their dephosphorylation, may play a role in the regulation of ions channels such as KCNH2 (By similarity). Dephosphorylate FNIP1, disrupting interaction with HSP90AA1/Hsp90 (PubMed:<a href="http://www.uniprot.org/citations/30699359" target="\_blank">>30699359</a>).

### Cellular Location

Nucleus. Cytoplasm. Cell membrane. Note=Predominantly nuclear (PubMed:15383005). But also present in the cytoplasm (PubMed:15383005) Translocates from the cytoplasm to the plasma membrane in a RAC1- dependent manner (PubMed:19948726).

### Tissue Location

Ubiquitous..

### PPP5C Antibody (S460) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

**PPP5C Antibody (S460) Blocking peptide - Images****PPP5C Antibody (S460) Blocking peptide - Background**

Dietary fat absorption from the small intestine is facilitated by acyl-CoA:monoacylglycerol transferase (MOGAT; EC2.3.1.22) and acyl-CoA:diacylglycerol acyltransferase (DGAT; seeMIM 604900) activities. MOGAT catalyzes the joining ofmonoacylglycerol and fatty acyl-CoAs to form diacylglycerol (Yenand Farese, 2003 [PubMed 12621063]).

**PPP5C Antibody (S460) Blocking peptide - References**

Cao, J., et al. J. Biol. Chem. 279(18):18878-18886(2004)Lockwood, J.F., et al. Am. J. Physiol. Endocrinol. Metab. 285 (5), E927-E937 (2003) :Yen, C.L., et al. J. Biol. Chem. 278(20):18532-18537(2003)Cao, J., et al. J. Biol. Chem. 278(16):13860-13866(2003)Winter, A., et al. Cytogenet. Genome Res. 102 (1-4), 42-47 (2003) :