

**RNF4 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16278b****Specification**

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**RNF4 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P78317](#)**RNF4 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 6047**Other Names**

E3 ubiquitin-protein ligase RNF4, 632-, RING finger protein 4, Small nuclear ring finger protein, Protein SNURF, RNF4, SNURF

**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.

**RNF4 Antibody (C-term) Blocking Peptide - Protein Information****Name** RNF4 {ECO:0000303|PubMed:15815621, ECO:0000312|HGNC:HGNC:10067}**Function**

E3 ubiquitin-protein ligase which binds polysumoylated chains covalently attached to proteins and mediates 'Lys-6'-, 'Lys-11'-, 'Lys-48'- and 'Lys-63'-linked polyubiquitination of those substrates and their subsequent targeting to the proteasome for degradation (PubMed:<a href="http://www.uniprot.org/citations/18408734" target="\_blank">18408734</a>, PubMed:<a href="http://www.uniprot.org/citations/19307308" target="\_blank">19307308</a>, PubMed:<a href="http://www.uniprot.org/citations/35013556" target="\_blank">35013556</a>). Regulates the degradation of several proteins including PML and the transcriptional activator PEA3 (PubMed:<a href="http://www.uniprot.org/citations/18408734" target="\_blank">18408734</a>, PubMed:<a href="http://www.uniprot.org/citations/19307308" target="\_blank">19307308</a>, PubMed:<a href="http://www.uniprot.org/citations/20943951" target="\_blank">20943951</a>). Involved in chromosome alignment and spindle assembly, it regulates the kinetochore CENPH-CENPI-CENPK complex by targeting polysumoylated CENPI to proteasomal degradation (PubMed:<a href="http://www.uniprot.org/citations/20212317" target="\_blank">20212317</a>). Regulates the cellular responses to hypoxia and heat shock through degradation of respectively EPAS1 and PARP1 (PubMed:<a href="http://www.uniprot.org/citations/19779455" target="\_blank">19779455</a>, PubMed:<a href="http://www.uniprot.org/citations/20026589" target="\_blank">20026589</a>). Alternatively, it may also bind DNA/nucleosomes and have a

more direct role in the regulation of transcription for instance enhancing basal transcription and steroid receptor-mediated transcriptional activation (PubMed:<a href="http://www.uniprot.org/citations/12885770" target="\_blank">12885770</a>). Catalyzes ubiquitination of sumoylated PARP1 in response to PARP1 trapping to chromatin, leading to PARP1 removal from chromatin by VCP/p97 (PubMed:<a href="http://www.uniprot.org/citations/35013556" target="\_blank">35013556</a>).

**Cellular Location**

Cytoplasm. Nucleus. Nucleus, PML body

**Tissue Location**

Widely expressed at low levels in many tissues; highly expressed in testis.

**RNF4 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**RNF4 Antibody (C-term) Blocking Peptide - Images****RNF4 Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene contains a RING finger motif and acts as a transcription regulator. This protein has been shown to interact with, and inhibit the activity of, TRPS1, a transcription suppressor of GATA-mediated transcription. Transcription repressor ZNF278/PATZ is found to interact with this protein, and thus reduce the enhancement of androgen receptor-dependent transcription mediated by this protein. Studies of the mouse and rat counterparts suggested a role of this protein in spermatogenesis. A pseudogene of this gene is found on chromosome 1.

**RNF4 Antibody (C-term) Blocking Peptide - References**

Hu, X.V., et al. Proc. Natl. Acad. Sci. U.S.A. 107(34):15087-15092(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Salonen, J., et al. Mol. Cell. Endocrinol. 307 (1-2), 205-210 (2009) :Percherancier, Y., et al. J. Biol. Chem. 284(24):16595-16608(2009) Tatham, M.H., et al. Nat. Cell Biol. 10(5):538-546(2008)