

**RNF14 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17648b****Specification**

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**RNF14 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9UBS8](#)**RNF14 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 9604**Other Names**

E3 ubiquitin-protein ligase RNF14, 632-, Androgen receptor-associated protein 54, HFB30, RING finger protein 14, Triad2 protein, RNF14, ARA54

**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.

**RNF14 Antibody (C-term) Blocking Peptide - Protein Information****Name** RNF14 {ECO:0000303|PubMed:36638793, ECO:0000312|HGNC:HGNC:10058}**Function**

E3 ubiquitin-protein ligase that plays a key role in the RNF14-RNF25 translation quality control pathway, a pathway that takes place when a ribosome has stalled during translation, and which promotes ubiquitination and degradation of translation factors on stalled ribosomes (PubMed: [36638793](http://www.uniprot.org/citations/36638793), PubMed: [37651229](http://www.uniprot.org/citations/37651229), PubMed: [37951215](http://www.uniprot.org/citations/37951215), PubMed: [37951216](http://www.uniprot.org/citations/37951216)). Recruited to stalled ribosomes by the ribosome collision sensor GCN1 and mediates 'Lys-6'-linked ubiquitination of target proteins, leading to their degradation (PubMed: [36638793](http://www.uniprot.org/citations/36638793), PubMed: [37651229](http://www.uniprot.org/citations/37651229), PubMed: [37951215](http://www.uniprot.org/citations/37951215), PubMed: [37951216](http://www.uniprot.org/citations/37951216)). Mediates ubiquitination of EEF1A1/eEF1A and ETF1/eRF1 translation factors on stalled ribosomes, leading to their degradation (PubMed: [36638793](http://www.uniprot.org/citations/36638793), PubMed: [37651229](http://www.uniprot.org/citations/37651229), PubMed: [37951215](http://www.uniprot.org/citations/37951215), PubMed: [37951216](http://www.uniprot.org/citations/37951216)). Also catalyzes ubiquitination of ribosomal proteins RPL0, RPL1,

RPL12, RPS13 and RPS17 (PubMed:<a href="http://www.uniprot.org/citations/36638793" target="\_blank">36638793</a>). Specifically required to resolve RNA-protein cross-links caused by reactive aldehydes, which trigger translation stress by stalling ribosomes: acts by catalyzing 'Lys-6'-linked ubiquitination of RNA-protein cross-links, leading to their removal by the ATP-dependent unfoldase VCP and subsequent degradation by the proteasome (PubMed:<a href="http://www.uniprot.org/citations/37951215" target="\_blank">37951215</a>, PubMed:<a href="http://www.uniprot.org/citations/37951216" target="\_blank">37951216</a>). Independently of its function in the response to stalled ribosomes, acts as a regulator of transcription in Wnt signaling via its interaction with TCF transcription factors (TCF7/TCF1, TCF7L1/TCF3 and TCF7L2/TCF4) (PubMed:<a href="http://www.uniprot.org/citations/23449499" target="\_blank">23449499</a>). May also play a role as a coactivator for androgen- and, to a lesser extent, progesterone-dependent transcription (PubMed:<a href="http://www.uniprot.org/citations/19345326" target="\_blank">19345326</a>).

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

Widely expressed..

**RNF14 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**RNF14 Antibody (C-term) Blocking Peptide - Images****RNF14 Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene contains a RING zincfinger, a motif known to be involved in protein-protein interactions. This protein interacts with androgen receptor (AR) and may function as a coactivator that induces AR target gene expression in prostate. A dominant negative mutant of this gene has been demonstrated to inhibit the AR-mediated growth of prostate cancer. This protein also interacts with class III ubiquitin-conjugating enzymes (E2s) and may act as a ubiquitin-ligase (E3) in the ubiquitination of certain nuclear proteins. Five alternatively spliced transcript variants encoding two distinct isoforms have been reported.

**RNF14 Antibody (C-term) Blocking Peptide - References**

Xu, K., et al. Cancer Cell 15(4):270-282(2009) Lan, K.C., et al. Fertil. Steril. 89 (5 SUPPL), 1397-1405 (2008) :Kikuchi, H., et al. Carcinogenesis 28(8):1752-1758(2007) Yang, Z., et al. Endocrinology 148(3):1340-1349(2007) Yang, Z., et al. Mol. Endocrinol. 21(2):343-358(2007)