

**RNF40 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14362b****Specification**

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**RNF40 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O75150](#)**RNF40 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 9810**Other Names**

E3 ubiquitin-protein ligase BRE1B, BRE1-B, 632-, 95 kDa retinoblastoma-associated protein, RBP95, RING finger protein 40, RNF40, BRE1B, KIAA0661

**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.

**RNF40 Antibody (C-term) Blocking Peptide - Protein Information****Name** RNF40**Synonyms** BRE1B, KIAA0661**Function**

Component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation (H3K4me and H3K79me, respectively). It thereby plays a central role in histone code and gene regulation. The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B; reports about the cooperation with UBE2E1/UBCH are contradictory. Required for transcriptional activation of Hox genes.

**Cellular Location**

Nucleus.

**Tissue Location**

Ubiquitously expressed. Expressed at higher level in testis, heart and pancreas, while it is only weakly expressed in lung, skeletal muscle and small intestine

**RNF40 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**RNF40 Antibody (C-term) Blocking Peptide - Images****RNF40 Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene contains a RING finger, a motif known to be involved in protein-protein and protein-DNA interactions. This protein was reported to interact with the tumor suppressor protein RB1. Studies of the rat counterpart suggested that this protein may function as an E3 ubiquitin-protein ligase, and facilitate the ubiquitination and degradation of syntaxin 1, which is an essential component of the neurotransmitter release machinery.

**RNF40 Antibody (C-term) Blocking Peptide - References**

Chernikova, S.B., et al. Radiat. Res. 174(5):558-565(2010) Kim, J., et al. Cell 137(3):459-471(2009) Olsen, J.V., et al. Cell 127(3):635-648(2006) Olsen, J.V., et al. Cell 127(3):635-648(2006) Zhu, B., et al. Mol. Cell 20(4):601-611(2005)