

**RNF20 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14192a****Specification**

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**RNF20 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q5VTR2](#)**RNF20 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 56254**Other Names**

E3 ubiquitin-protein ligase BRE1A, BRE1-A, hBRE1, 632-, RING finger protein 20, RNF20, BRE1A

**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.

**RNF20 Antibody (N-term) Blocking Peptide - Protein Information****Name** RNF20**Synonyms** BRE1A**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. Recruited to the MDM2 promoter, probably by being recruited by p53/TP53, and thereby acts as a transcriptional coactivator. Mediates the polyubiquitination of isoform 2 of PA2G4 in cancer cells leading to its proteasome-mediated degradation.

**Cellular Location**

Nucleus

**Tissue Location**

Expressed in the normal brain and also in malignant gliomas (at protein level).

**RNF20 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**RNF20 Antibody (N-term) Blocking Peptide - Images****RNF20 Antibody (N-term) Blocking Peptide - Background**

The protein encoded by this gene shares similarity with BRE1 of *S. cerevisiae*. Yeast BRE1 is a ubiquitin ligase required for the ubiquitination of histone H2B and the methylation of histone H3.

**RNF20 Antibody (N-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) Liu, Z., et al. Mol. Biol. Cell 20(3):757-768(2009) Shema, E., et al. Genes Dev. 22(19):2664-2676(2008) Barber, T.D., et al. Proc. Natl. Acad. Sci. U.S.A. 105(9):3443-3448(2008)