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RNF20 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14192a

Specification

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

RNF20 Antibody (N-term) Blocking Peptide - Background

The protein encoded by this gene shares similarity withBRE1 of S. cerevisiae. Yeast BRE1 is a ubiquitin ligase requiredfor the ubiquitination of histone H2B and the methylation ofhistone 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)

'Lys-79' methylation (H3K4me and H3K79me, respectively). It thereby plays a central role inb 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