10320 Camino Santa Fe, Suite G
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RING1 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP21001c

Specification

RING1 Blocking Peptide (C-term) - Product Information

Primary Accession	Q06587
Other Accession	Q6MGB6, O35730

RING1 Blocking Peptide (C-term) - Additional Information

Gene ID 6015

Other Names
E3 ubiquitin-protein ligase RING1, 632-, Polycomb complex protein RING1, RING finger protein 1, Really interesting new gene 1 protein, RING1, RNF1

Target/Specificity
The synthetic peptide sequence is selected from aa 279-293 of HUMAN RING1

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.

RING1 Blocking Peptide (C-term) - Protein Information

Name RING1 (HGNC:10018)

Function
Constitutes one of the E3 ubiquitin-protein ligases that mediate monoubiquitination of 'Lys-119' of histone H2A, thereby playing a central role in histone code and gene regulation. H2A 'Lys-119' ubiquitination gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. Essential component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones, rendering chromatin heritably changed in its expressibility. Compared to RNF2/RING2, it does not have the main E3 ubiquitin ligase activity on histone H2A, and it may rather act as a modulator of RNF2/RING2 activity.

Cellular Location
Nucleus. Nucleus speckle

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RING1 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

RING1 Blocking Peptide (C-term) - Images

RING1 Blocking Peptide (C-term) - Background

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RING1 Blocking Peptide (C-term) - References

Lovering R.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:2112-2116(1993).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).
Satijn D.P.E.,et al.Mol. Cell. Biol. 17:4105-4113(1997).