

WDR5 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP21036c**Specification**

WDR5 Blocking Peptide (C-term) - Product Information

Primary Accession [P61964](#)
Other Accession [Q9V3J8](#), [Q498M4](#), [P61965](#), [Q2KIG2](#)

WDR5 Blocking Peptide (C-term) - Additional Information

Gene ID 11091

Other Names

WD repeat-containing protein 5, BMP2-induced 3-kb gene protein, WDR5, BIG3

Target/Specificity

The synthetic peptide sequence is selected from aa 321-334 of HUMAN WDR5

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.

WDR5 Blocking Peptide (C-term) - Protein Information

Name WDR5

Synonyms BIG3

Function

Contributes to histone modification (PubMed: [19131338](http://www.uniprot.org/citations/19131338), PubMed: [19556245](http://www.uniprot.org/citations/19556245), PubMed: [19103755](http://www.uniprot.org/citations/19103755), PubMed: [20018852](http://www.uniprot.org/citations/20018852), PubMed: [16600877](http://www.uniprot.org/citations/16600877), PubMed: [16829960](http://www.uniprot.org/citations/16829960)). May position the N-terminus of histone H3 for efficient trimethylation at 'Lys-4' (PubMed: [16829960](http://www.uniprot.org/citations/16829960)). As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3 (PubMed: [19556245](http://www.uniprot.org/citations/19556245)). H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation (PubMed: [19131338](#)).

[18840606](http://www.uniprot.org/citations/18840606)). As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues (PubMed: [19103755](http://www.uniprot.org/citations/19103755), PubMed: [20018852](http://www.uniprot.org/citations/20018852)). May regulate osteoblasts differentiation (By similarity). In association with RBBP5 and ASH2L, stimulates the histone methyltransferase activities of KMT2A, KMT2B, KMT2C, KMT2D, SETD1A and SETD1B (PubMed: [21220120](http://www.uniprot.org/citations/21220120), PubMed: [22266653](http://www.uniprot.org/citations/22266653)).

Cellular Location

Nucleus

WDR5 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

WDR5 Blocking Peptide (C-term) - Images

WDR5 Blocking Peptide (C-term) - Background

Contributes to histone modification. May position the N- terminus of histone H3 for efficient trimethylation at 'Lys-4'. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. May regulate osteoblasts differentiation.

WDR5 Blocking Peptide (C-term) - References

Young J.M.,et al.Submitted (SEP-1998) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Wysocka J.,et al.Genes Dev. 17:896-911(2003).
Hughes C.M.,et al.Mol. Cell 13:587-597(2004).
Yokoyama A.,et al.Mol. Cell. Biol. 24:5639-5649(2004).