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WDR5 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP20951c

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, PubMed:19556245, PubMed:19103755, PubMed:20018852, PubMed:16600877, PubMed:16829960). May position the N-terminus of histone H3 for efficient trimethylation at 'Lys-4' (PubMed:16829960). As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3 (PubMed:19556245). H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation (PubMed:<a

href="http://www.uniprot.org/citations/18840606" target="_blank">18840606). As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues (PubMed:19103755, PubMed: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, PubMed: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.
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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).