

WDR5 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16126a**Specification**

WDR5 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P61964](#)**WDR5 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 11091**Other Names**

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

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 Antibody (N-term) Blocking Peptide - 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: [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)).

target="_blank">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 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

WDR5 Antibody (N-term) Blocking Peptide - Images

WDR5 Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asn (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. This protein contains 7 WD repeats. Alternatively spliced transcript variants encoding the same protein have been identified.

WDR5 Antibody (N-term) Blocking Peptide - References

Davis, O.S., et al. Behav. Genet. 40(6):759-767(2010) Yates, J.A., et al. FEBS Lett. 584(4):689-693(2010) Cai, Y., et al. J. Biol. Chem. 285(7):4268-4272(2010) Wang, Y.Y., et al. Proc. Natl. Acad. Sci. U.S.A. 107(2):815-820(2010) Patel, A., et al. J. Biol. Chem. 284(36):24242-24256(2009)