WDR5 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	WDR5, Blocking Peptide
Full Product Name	WDR5 Antibody (N-term) Blocking Peptide
Product Gene Name	WDR5 blocking peptide
Product Synonym Gene Name	BIG3
Product Synonym Names	WD repeat-containing protein 5; BMP2-induced 3-kb gene protein; WDR5; BIG3
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	WDR5 peptide (MBS9221453) is used for blocking the activity of WDR5 antibody (MBS9208049)
Molecular Weight	36,588 Da
OMIM	609012
Cellular Location	Nucleus
Related Product Information for WDR5 blocking peptide	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.
Other Notes	Small volumes of WDR5 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for WDR5 purchase	MBS9221453 is a blocking peptide targeting WDR5. Also known as WDR5 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WDR5. It may not necessarily be applicable to this product.

NCBI GI #	48429182
NCBI GeneID	11091
NCBI Accession #	P61964.1
UniProt Primary Accession #	P61964
UniProt Secondary Accession #	Q91VA5; Q9NWX7; Q9UGP9
UniProt Related Accession #	P61964
NCBI Official Full Name	WD repeat-containing protein 5
NCBI Official Synonym Full Names	WD repeat domain 5
NCBI Official Symbol	WDR5
NCBI Official Synonym Symbols	SWD3; BIG-3; CFAP89
UniProt Protein Name	WD repeat-containing protein 5

UniProt Synonym Protein Names	BMP2-induced 3-kb gene protein
Protein Family	WD repeat-containing protein
UniProt Gene Name	WDR5
UniProt Synonym Gene Names	BIG3
UniProt Entry Name	WDR5_HUMAN
NCBI Protein Information	WD repeat-containing protein 5
NCBI Summary for WDR5	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-asp (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. [provided by RefSeq, Jul 2008]
UniProt Comments for WDR5	WDR5: a WD40 repeat protein. May accelerate osteoblast differentiation. Interacts with HCFC1. WD40 repeats are found in a number of eukaryotic proteins that coordinate multi-protein complex assemblies. WD40 proteins are implicated in many functions including adaptor/regulatory modules in signal transduction, pre-mRNA processing and cytoskeleton assembly. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 9q34 Cellular Component: histone acetyltransferase complex; histone methyltransferase complex; nucleoplasm; nucleus Molecular Function: histone acetyltransferase activity (H4-K16 specific); histone lysine N-methyltransferase activity (H3-K4 specific); histone-lysine N-methyltransferase activity; methylated histone residue binding; protein binding Biological Process: histone H3-K4 methylation
Research Articles on WDR5	**1.** WDR5 over-expression is associated with poor breast cancer clinical outcome.
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