WDR5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	WDR5, Polyclonal Antibody
Full Product Name	WDR5 Antibody FITC-Conjugated
Product Gene Name	anti-WDR5 antibody
Product Synonym Names	2410008O07Rik; AA408785; AA960360; Big; BIG3; BMP2 induced 3 kb gene protein; MGC114572; OTTHUMP00000162494; SWD3 Set1c WD40 repeat protein homolog; WD repeat-containing protein 5; WD repeat-containing protein BIG-3; WDR 5 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	FITC-Conjugated
Concentration	0.67 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: WDR5 (MBS5400241) Positive Control: WDR5 (MBS543379)
Antibody/Peptide Pairs	WDR5 peptide (MBS544657) is used for blocking the activity of WDR5 antibody (MBS5400241)
Molecular Weight	36,588 Da
OMIM	609012
3D Structure	ModBase 3D Structure for P61964
Immunogen	Synthetic Peptide taken within amino acid region 150-175 on WDR5 protein.
Molecular Function	Chromatin regulator
Structure	Interacts with PAXBP1; the interaction is direct and links a WDR5-containing histone methyltransferase complex to PAX7 and PAX3. Interacts with HCFC1. Component of the ATAC complex, a complex with histone acetyltransferase activity on histones H3 and H4.
Subcellular Location	Nucleus
Applications Tested/Suitable for anti-WDR5 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-WDR5 antibody	Dot Blot: 1:10,000 ELISA: 1:10,000 Immunohistochemistry: 1:100 Immunoprecipitation: 1:200 Western Blot: 1:500
Related Product Information for anti-WDR5 antibody	FITC-Conjugated WD repeat-containing protein 5 Antibody 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.

Other Notes	Small volumes of anti-WDR5 antibody 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	MBS5400241 is an antibody targeting WDR5. Also known as WDR5 Antibody FITC-Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI Accession #	NP_060058.2
UniProt Primary Accession #	P61964
UniProt Secondary Accession #	Q91VA5; Q9NWX7; Q9UGP9
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
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; neurite development; skeletal development; transcription, DNA-dependent
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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