WDR5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Wdr5, Polyclonal Antibody
Full Product Name	Wdr5 (WD Repeat-Containing Protein 5, BMP2-Induced 3-kb gene Protein, WD Repeat-Containing Protein BIG-3, Wdr5, Big, Big3) (MaxLight 405)
Product Gene Name	anti-Wdr5 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes Wdr5. Species Crossreactivity: human, mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	36,588 Da
3D Structure	ModBase 3D Structure for P61965
Immunogen	KLH conjugated synthetic peptide between at the region of mouse Wdr5. Species sequence homology: rat
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-Wdr5 antibody	Antibodies; WD Repeat Proteins
Applications Tested/Suitable for anti-Wdr5 antibody	Western Blot (WB)
Application Notes for anti-Wdr5 antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-Wdr5 antibody	MBS6460204 is an antibody targeting Wdr5. Also known as Wdr5 (WD Repeat-Containing Protein 5, BMP2-Induced 3-kb gene Protein, WD Repeat-Containing Protein BIG-3, Wdr5, Big, Big3) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-Wdr5 antibody	Gori F., et al. J. Biol. Chem. 276:46515-46522(2001). Carninci P., et al. Science 309:1559-1563(2005). Jiang H., et al. Cell 144:513-525(2011). Yang Y.J., et al. Cell 151:1097-1112(2012). Diao Y., et al. Cell Stem Cell 11:231-241(2012).
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Wdr5. It may not necessarily be applicable to this product.

NCBI GI #	18252790
NCBI GeneID	140858
NCBI Accession #	NP_543124.1
UniProt Primary Accession #	P61965
UniProt Secondary Accession #	Q498M4; P61964
UniProt Related Accession #	P61965
GenBank Nucleotide #	NM_080848.2
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	Big; Big-3; AA408785; AA960360; 2410008O07Rik
UniProt Protein Name	WD repeat-containing protein 5
UniProt Synonym Protein Names	BMP2-induced 3-kb gene protein; WD repeat-containing protein BIG-3
Protein Family	WD repeat-containing protein
UniProt Gene Name	Wdr5
UniProt Synonym Gene Names	Big; Big3
NCBI Protein Information	WD repeat-containing protein 5
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: 2|2 A3 Cellular Component: histone acetyltransferase complex; histone methyltransferase complex; intracellular; nucleoplasm; nucleus Molecular Function: histone acetyltransferase activity (H4-K16 specific); histone methyltransferase activity (H3-K4 specific); methylated histone residue binding; protein binding Biological Process: covalent chromatin modification; histone H3-K4 methylation; neuron projection development; regulation of transcription, DNA-templated; skeletal system development; transcription, DNA-dependent
Research Articles on Wdr5	**1.** Cbx8 associates with non-PRC1 complexes containing the H3K4 methyltransferase complex component WDR5, which together regulate Notch gene expression.
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