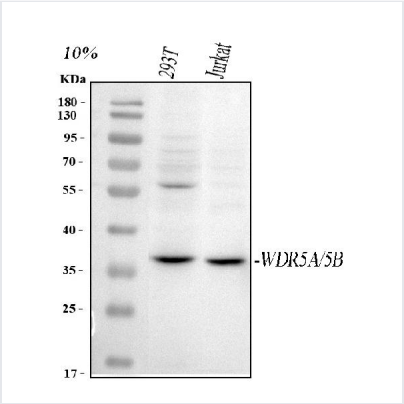
WDR5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	WDR5, Polyclonal Antibody
Full Product Name	Anti-WDR5 Antibody Picoband
Product Gene Name	anti-WDR5 antibody
Product Synonym Names	Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in all tissues.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	334
OMIM	609012
3D Structure	ModBase 3D Structure for P61964
Immunogen	E coli-derived human WDR5 recombinant protein (Position: Q25-D324).
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Product Categories/Family for anti-WDR5 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-WDR5 antibody	Western Blot (WB), ELISA (EIA)

Application Notes for anti-WDR5 antibody	WB: 0.25-0.5ug/ml, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-WDR5 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-WDR5 antibody	1. Brown, S. A., Ripperger, J., Kadener, S., Fleury-Olela, F., Vilbois, F., Rosbach, M., Schibler, U. PERIOD1-associated proteins modulate the negative limb of the mammalian circadian oscillator. Science 308: 693-696, 2005.2. El-Brolosy, M. A., Kontarakis, Z., Rossi, A., Kuenne, C., Gunther, S., Fukuda, N., Kikhi, K., Boezio, G. L. M., Takacs, C. M., Lai, S.-L., Fukuda, R., Gerri, C., Giraldez, A. J., Stainier, D. Y. R. Genetic compensation triggered by mutant mRNA degradation. Nature 568: 193-197, 2019.3. Gori, F., Divieti, P., Demay, M. B. Cloning and characterization of a novel WD-40 repeat protein that dramatically accelerates osteoblastic differentiation. J. Biol. Chem. 276: 46515-46522, 2001.
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	MBS1758245 is an antibody targeting WDR5. Also known as Anti-WDR5 Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-WDR5 antibody

Figure 1. Western blot analysis of WDR5 using anti-WDR5 antibody (MBS1758245).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human Jurkat whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-WDR5 antigen affinity purified polyclonal antibody (#MBS1758245) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for WDR5 at approximately 37 kDa. The expected band size for WDR5 is at 37 kDa.

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; WD-repeat protein 5; BMP2-induced 3-kb gene protein; SWD3, Set1c WD40 repeat protein, homolog; cilia and flagella associated protein 89
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: nucleoplasm; histone methyltransferase complex; nucleus; histone acetyltransferase complex Molecular Function: protein binding; histone lysine N-methyltransferase activity (H3-K4 specific); histone acetyltransferase activity (H4-K16 specific) Biological Process: establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; histone H3-K4 methylation; skeletal development
Research Articles on WDR5	**1.** results identify WDR5 as a critical epigenomic integrator of histone phosphorylation and methylation and as a major driver of androgen-dependent prostate cancer cell proliferation
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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/wdr5/1758245