

# WDR5 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21036c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P61964</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB51422
<b>Calculated MW</b>	36588

## Additional Information

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<b>Gene ID</b>	11091
<b>Other Names</b>	WD repeat-containing protein 5, BMP2-induced 3-kb gene protein, WDR5, BIG3
<b>Target/Specificity</b>	This WDR5 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 321-354 amino acids from the C-terminal region of human WDR5.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	WDR5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	WDR5
<b>Synonyms</b>	BIG3
<b>Function</b>	Contributes to histone modification (PubMed: <a href="#">16600877</a> , PubMed: <a href="#">16829960</a> , PubMed: <a href="#">19103755</a> , PubMed: <a href="#">19131338</a> , PubMed: <a href="#">19556245</a> , PubMed: <a href="#">20018852</a> ). May position the N-terminus of histone H3 for efficient

trimethylation at 'Lys-4' (PubMed:[16829960](#)). As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3 (PubMed:[19556245](#)). H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation (PubMed:[18840606](#)). As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues (PubMed:[19103755](#), PubMed:[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

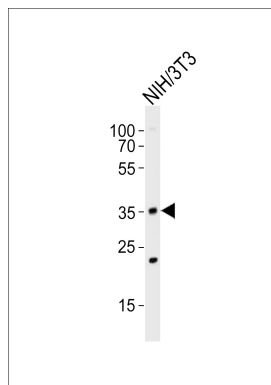
## Background

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.

## References

Young J.M.,et al.Submitted (SEP-1998) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Wysocka J.,et al.Genes Dev. 17:896-911(2003).  
Hughes C.M.,et al.Mol. Cell 13:587-597(2004).  
Yokoyama A.,et al.Mol. Cell. Biol. 24:5639-5649(2004).

## Images



Western blot analysis of lysate from mouse NIH/3T3 cell line, using WDR5 Antibody (C-term)(Cat. #AP21036c). AP21036c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.