

**WDR5 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16126a****Specification**

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**WDR5 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P61964</a>
Other Accession	<a href="#">Q498M4</a> , <a href="#">P61965</a> , <a href="#">Q2KIG2</a> , <a href="#">NP_060058.1</a> , <a href="#">NP_438172.1</a>
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36588
Antigen Region	12-40

**WDR5 Antibody (N-term) - Additional Information****Gene ID** 11091**Other Names**

WD repeat-containing protein 5, BMP2-induced 3-kb gene protein, WDR5, BIG3

**Target/Specificity**

This WDR5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-40 amino acids from the N-terminal region of human WDR5.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

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.

**Storage**

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.

**Precautions**

WDR5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**WDR5 Antibody (N-term) - Protein Information****Name** WDR5

## Synonyms BIG3

**Function** Contributes to histone modification (PubMed:[16600877](#), PubMed:[16829960](#), PubMed:[19103755](#), PubMed:[19131338](#), PubMed:[19556245](#), PubMed:[20018852](#)). 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

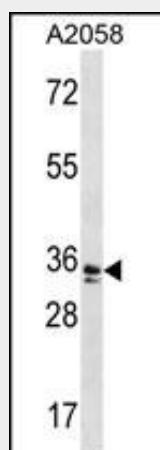
Nucleus

## WDR5 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## WDR5 Antibody (N-term) - Images



WDR5 Antibody (N-term) (Cat. #AP16126a) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the WDR5 antibody detected the WDR5 protein (arrow).

## WDR5 Antibody (N-term) - Background

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.

#### **WDR5 Antibody (N-term) - References**

Davis, O.S., et al. Behav. Genet. 40(6):759-767(2010)  
Yates, J.A., et al. FEBS Lett. 584(4):689-693(2010)  
Cai, Y., et al. J. Biol. Chem. 285(7):4268-4272(2010)  
Wang, Y.Y., et al. Proc. Natl. Acad. Sci. U.S.A. 107(2):815-820(2010)  
Patel, A., et al. J. Biol. Chem. 284(36):24242-24256(2009)