

For Research Use Only

# WDR5 Polyclonal antibody

Catalog Number: 15544-1-AP **4 Publications**



## Basic Information

<b>Catalog Number:</b> 15544-1-AP	<b>GenBank Accession Number:</b> BC001635	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 800 µg/ml	<b>GeneID (NCBI):</b> 11091	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P61964	
<b>Isotype:</b> IgG	<b>Full Name:</b> WD repeat domain 5	
<b>Immunogen Catalog Number:</b> AG7900	<b>Calculated MW:</b> 37 kDa	
	<b>Observed MW:</b> 36 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, K-562 cells IHC : human kidney tissue,
<b>Cited Applications:</b> ChIP, IF, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The WDR5 antibody targets the WD repeat protein domain 5 (WDR5), a member of the WD40 repeat protein family in humans. The WDR5 protein is a core member of the mammalian trithorax complex and, like the rest of the WD40 repeat protein family, is primarily involved in diverse cellular processes. WDR5 is identified as a methyl Lys-4 H3-specific-binding protein, however it is known to interact with the Mixed Lineage Leukemia (MLL) protein at the same site for histone H3 tri-methylation (PMID:18840606). Recently, the WDR5 protein has been shown to regulate embryonic stem cell self-renewal, and an increased expression of WDR5 has been found to efficiently induce the formation of pluripotent stem cells (PMID:21477851). WDR5 is also shown to accelerate osteoblast and chondrocyte differentiation (PMID:16730692).

## Notable Publications

Author	Pubmed ID	Journal	Application
Austin G Holmes	35476451	Sci Adv	ChIP
Mai Abdel Mouti	37709746	Nat Commun	WB
Fu-Chun Huo	37480971	Pharmacol Res	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

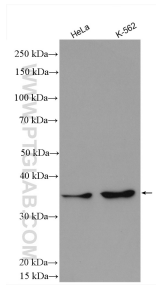
T: 4006900926

E: Proteintech-CN@ptglab.com

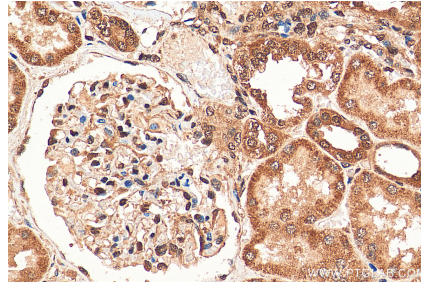
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15544-1-AP (WDR5 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 15544-1-AP (WDR5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).