

**WDR82 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20977b****Specification**

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**WDR82 Antibody (N-term) - Product Information**

Application	WB, FC, IHC-P,E
Primary Accession	<a href="#">Q6UXN9</a>
Other Accession	<a href="#">Q8BFQ4</a> , <a href="#">Q6NV31</a> , <a href="#">Q5ZMV7</a> , <a href="#">Q58E77</a> , <a href="#">Q640J6</a>
Reactivity	Human, Mouse, Zebrafish
Predicted	Xenopus, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	50-85

**WDR82 Antibody (N-term) - Additional Information****Gene ID** 80335**Other Names**

WD repeat-containing protein 82, Protein TMEM113, Swd2, WDR82, TMEM113, WDR82A

**Target/Specificity**

This WDR82 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 50-85 amino acids from the N-terminal region of human WDR82.

**Dilution**

WB~~1:1000

FC~~1:25

IHC-P~~1:250

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**

WDR82 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**WDR82 Antibody (N-term) - Protein Information****Name** WDR82 {ECO:0000303|PubMed:17998332, ECO:0000312|HGNC:HGNC:28826}

**Function** Regulatory component of the SET1/COMPASS complex implicated in the tethering of this complex to transcriptional start sites of active genes (PubMed:[17998332](#), PubMed:[18838538](#), PubMed:[20516061](#)). Facilitates histone H3 'Lys-4' methylation (H3K4me) via recruitment of the SETD1A or SETD1B to the 'Ser-5' phosphorylated C-terminal domain (CTD) of RNA polymerase II large subunit (POLR2A) (PubMed:[17998332](#), PubMed:[18838538](#)). Component of the PNUTS-PP1 protein phosphatase complex, a protein phosphatase 1 (PP1) complex that promotes RNA polymerase II transcription pause-release, allowing transcription elongation (PubMed:[39603240](#), PubMed:[39603239](#)). PNUTS-PP1 also plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase (PubMed:[20516061](#)). Together with ZC3H4, but independently of the SET1 complex, part of a transcription termination checkpoint that promotes transcription termination of long non-coding RNAs (lncRNAs) (PubMed:[33767452](#), PubMed:[33913806](#)). The transcription termination checkpoint is activated by the inefficiently spliced first exon of lncRNAs and promotes transcription termination of lncRNAs and their subsequent degradation by the exosome (PubMed:[33767452](#)).

#### Cellular Location

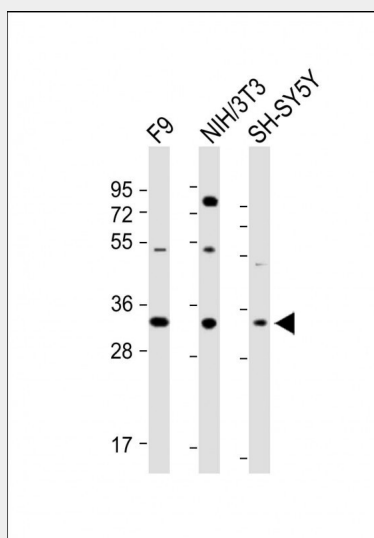
Nucleus. Chromosome {ECO:0000250|UniProtKB:Q8BFQ4}. Cytoplasm {ECO:0000250|UniProtKB:Q8BFQ4}. Note=Associates with chromatin (PubMed:20516061). Recruited at sites of high RNA polymerase II occupancy (By similarity). {ECO:0000250|UniProtKB:Q8BFQ4, ECO:0000269|PubMed:20516061}

#### WDR82 Antibody (N-term) - Protocols

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

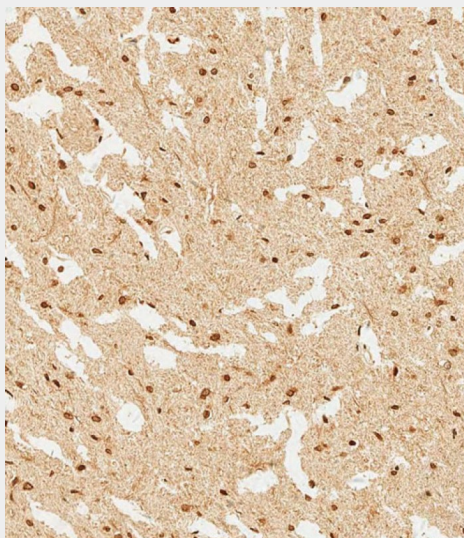
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### WDR82 Antibody (N-term) - Images

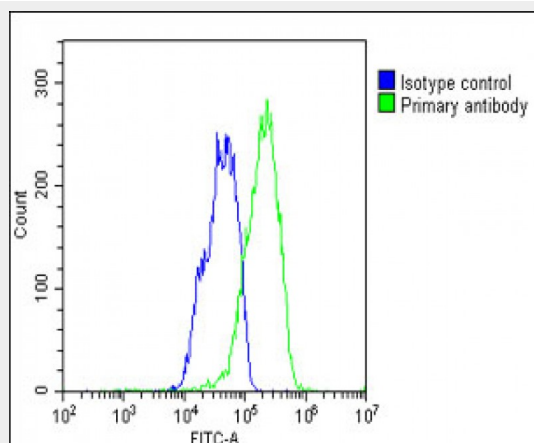


All lanes : Anti-WDR82 Antibody (N-term) at 1:1000 dilution Lane 1: F9 whole cell lysate Lane

2:NIH/3T3 whole cell lysate Lane 3: SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 35 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP20977b staining WDR82 in human brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Samples were incubated with primary antibody (1/250) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing HepG2 cells stained with AP20977b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP20977b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

### WDR82 Antibody (N-term) - Background

Regulatory component of the SET1 complex implicated in the tethering of this complex to transcriptional start sites of active genes. Facilitates histone H3 'Lys-4' methylation via recruitment of the SETD1A or SETD1B to the 'Ser-5' phosphorylated C-terminal domain (CTD) of RNA polymerase II large subunit (POLR2A). Component of PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase.

**WDR82 Antibody (N-term) - References**

Clark H.F.,et al.Genome Res. 13:2265-2270(2003).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
Lee J.-H.,et al.J. Biol. Chem. 280:41725-41731(2005).  
Higa L.A.,et al.Nat. Cell Biol. 8:1277-1283(2006).