

### WDR82 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5310

### **Specification**

# WDR82 Antibody (N-term) - Product Information

Application IF, WB,E
Primary Accession O6UXN9
Other Accession O8BFO4
Reactivity Human
Predicted Mouse
Host Rabbit
Clonality Polyclonal

Calculated MW H=35;M=35;Z=35 KDa

Isotype Rabbit IgG
Antigen Source HUMAN

# WDR82 Antibody (N-term) - Additional Information

**Gene ID 80335** 

**Antigen Region** 

12~46

# **Other Names**

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

# **Dilution**

IF~~1:25 WB~~1:1000

# Target/Specificity

This WDR82 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 12~46 amino acids from the N-terminal region of human WDR82.

### **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:<a href="http://www.uniprot.org/citations/17998332" target=" blank">17998332</a>, PubMed:<a href="http://www.uniprot.org/citations/18838538" target=" blank">18838538</a>, PubMed:<a href="http://www.uniprot.org/citations/20516061" target="blank">20516061</a>). 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:<a href="http://www.uniprot.org/citations/17998332" target=" blank">17998332</a>, PubMed:<a href="http://www.uniprot.org/citations/18838538" target=" blank">18838538</a>). 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:<a href="http://www.uniprot.org/citations/39603240" target=" blank">39603240</a>, PubMed:<a href="http://www.uniprot.org/citations/39603239" target="blank">39603239</a>). PNUTS-PP1 also plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase (PubMed:<a href="http://www.uniprot.org/citations/20516061" target=" blank">20516061</a>). Together with ZC3H4, but independently of the SET1 complex, part of a transcription termination checkpoint that promotes transcription termination of long non-coding RNAs (IncRNAs) (PubMed: <a href="http://www.uniprot.org/citations/33767452" target=" blank">33767452</a>, PubMed:<a href="http://www.uniprot.org/citations/33913806" target="\_blank">33913806</a>). The transcription termination checkpoint is activated by the inefficiently spliced first exon of IncRNAs

#### **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}

and promotes transcription termination of IncRNAs and their subsequent degradation by the

exosome (PubMed:<a href="http://www.uniprot.org/citations/33767452"

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

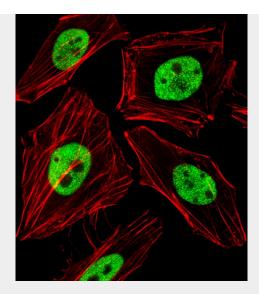
target=" blank">33767452</a>).

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

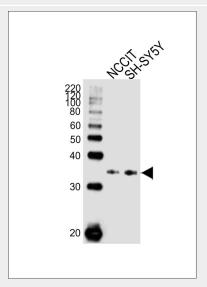
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# WDR82 Antibody (N-term) - Images





Fluorescent image of Hela cells stained with WDR82 Antibody (N-term)(Cat#AW5310). AW5310 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



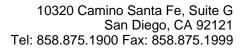
Western blot analysis of lysates from NCCIT,SH-SY5Y cell line (from left to right), using WDR82 Antibody (N-term)(Cat. #AW5310). AW5310 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.

## 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).