

# WDR18 Antibody

Catalog # ASC11475

#### Specification

# WDR18 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Application Notes WB, IHC <u>O9BV38</u> NP\_077005, 56243583 Human, Mouse, Rat Rabbit Polyclonal IgG WDR18 antibody can be used for detection of WDR18 by Western blot at 0.5 - 1 μg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μg/mL. For immunofluorescence start at 2.5 μg/mL.

## WDR18 Antibody - Additional Information

Gene ID 57418 Target/Specificity WDR18; WDR18 antibody is predicted to not cross-react with other WDR family members.

#### **Reconstitution & Storage**

WDR18 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

#### Precautions

WDR18 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## WDR18 Antibody - Protein Information

Name WDR18

Function

Functions as a component of the Five Friends of Methylated CHTOP (5FMC) complex; the 5FMC complex is recruited to ZNF148 by methylated CHTOP, leading to desumoylation of ZNF148 and subsequent transactivation of ZNF148 target genes (PubMed:<a

href="http://www.uniprot.org/citations/22872859" target="\_blank">22872859</a>). Component of the PELP1 complex involved in the nucleolar steps of 28S rRNA maturation and the subsequent nucleoplasmic transit of the pre-60S ribosomal subunit (PubMed:<a

href="http://www.uniprot.org/citations/21326211" target="\_blank">21326211</a>). May play a role during development (By similarity).

**Cellular Location** 



Nucleus, nucleolus. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q4VBE8}. Cytoplasm {ECO:0000250|UniProtKB:Q4VBE8}. Dynein axonemal particle {ECO:0000250|UniProtKB:A0A1L8HX76}. Note=Mainly found in the nucleoplasm, with low levels detected in the cytoplasmic and chromatin fractions. {ECO:0000250|UniProtKB:Q4VBE8}

#### WDR18 Antibody - Protocols

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

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

## WDR18 Antibody - Images



Western blot analysis of WDR18 in rat lung tissue lysate with WDR18 antibody at (A) 1 and (B) 2  $\mu g/mL$ 



Immunohistochemistry of WDR18 in human lung tissue with WDR18 antibody at 2.5 µg/mL.



## WDR18 Antibody - Background

WDR18 Antibody: WD repeat domain 18 (WDR18) is a member of the WD repeat protein family, which is involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. WD repeats are minimally conserved regions of approximately 40 amino acids that commonly form a tertiary propeller structure. WDR18 is a 432 amino acid protein that contains six WD repeats and is encoded by a gene located on human chromosome 19. WDR18 may play a role during development. The complex PELP1-TEX10-WDR18 is required for the maturation and nucleolar release of the large ribosomal subunit.

#### WDR18 Antibody - References

Smith TF, Gaitatzes C, Saxena K, et al. The WD repeat: a common architecture for diverse functions. Trends Biochem. Sci. 1999; 24:181-5.

Gao W, Xu L, Guan R, et al. Wdr18 is required for Kupffer's vesicle formation and regulation of body asymmetry in zebrafish. PLoS One 2011; 6:e23386.

Finkbeiner E, Haindl M, and Muller S. The SUMO system controls nucleolar partitioning of a novel mammalian ribosome biogenesis complex. EMBO J. 2011; 30:1067-78.