

**WDR48 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10505b****Specification**

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**WDR48 Antibody (C-term) - Product Information**

Application	WB, FC, IHC-P,E
Primary Accession	<a href="#">Q8TAF3</a>
Other Accession	<a href="#">Q4R2Z6</a> , <a href="#">Q32PG3</a> , <a href="#">NP_065890.1</a>
Reactivity	Rat
Predicted	Bovine, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	76210
Antigen Region	603-630

**WDR48 Antibody (C-term) - Additional Information****Gene ID** 57599**Other Names**

WD repeat-containing protein 48, USP1-associated factor 1, WD repeat endosomal protein, p80, WDR48, KIAA1449, UAF1

**Target/Specificity**

This WDR48 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 603-630 amino acids from the C-terminal region of human WDR48.

**Dilution**WB~~1:1000  
FC~~1:10~50  
IHC-P~~1:50~100  
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**

WDR48 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**WDR48 Antibody (C-term) - Protein Information**

**Name** WDR48 {ECO:0000303|PubMed:24145035, ECO:0000312|HGNC:HGNC:30914}

**Function** Regulator of deubiquitinating complexes, which acts as a strong activator of USP1, USP12 and USP46 (PubMed:[18082604](#), PubMed:[19075014](#), PubMed:[26388029](#), PubMed:[31253762](#)). Enhances the USP1- mediated deubiquitination of FANCD2; USP1 being almost inactive by itself (PubMed:[18082604](#), PubMed:[31253762](#)). Activates deubiquitination by increasing the catalytic turnover without increasing the affinity of deubiquitinating enzymes for the substrate (PubMed:[19075014](#), PubMed:[27373336](#)). Also activates deubiquitinating activity of complexes containing USP12 (PubMed:[19075014](#), PubMed:[27373336](#), PubMed:[27650958](#)). In complex with USP12, acts as a potential tumor suppressor by positively regulating PHLPP1 stability (PubMed:[24145035](#)). Docks at the distal end of the USP12 fingers domain and induces a cascade of structural changes leading to the activation of the enzyme (PubMed:[27373336](#), PubMed:[27650958](#)). Together with RAD51AP1, promotes DNA repair by stimulating RAD51-mediated homologous recombination (PubMed:[27239033](#), PubMed:[27463890](#), PubMed:[32350107](#)). Binds single- stranded DNA (ssDNA) and double-stranded DNA (dsDNA) (PubMed:[27239033](#), PubMed:[31253762](#), PubMed:[32350107](#)). DNA-binding is required both for USP1-mediated deubiquitination of FANCD2 and stimulation of RAD51- mediated homologous recombination: both WDR48/UAF1 and RAD51AP1 have coordinated role in DNA-binding during these processes (PubMed:[31253762](#), PubMed:[32350107](#)). Together with ATAD5 and by regulating USP1 activity, has a role in PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA (PubMed:[20147293](#)). Together with ATAD5, has a role in recruiting RAD51 to stalled forks during replication stress (PubMed:[31844045](#)).

#### **Cellular Location**

Nucleus. Cytoplasm. Lysosome. Late endosome. Note=Mainly in cytoplasmic compartments (PubMed:12196293, PubMed:18032488). In case of infection by papillomavirus HPV11, translocates to the nucleus via its interaction with papillomavirus HPV11 (PubMed:18032488)

#### **Tissue Location**

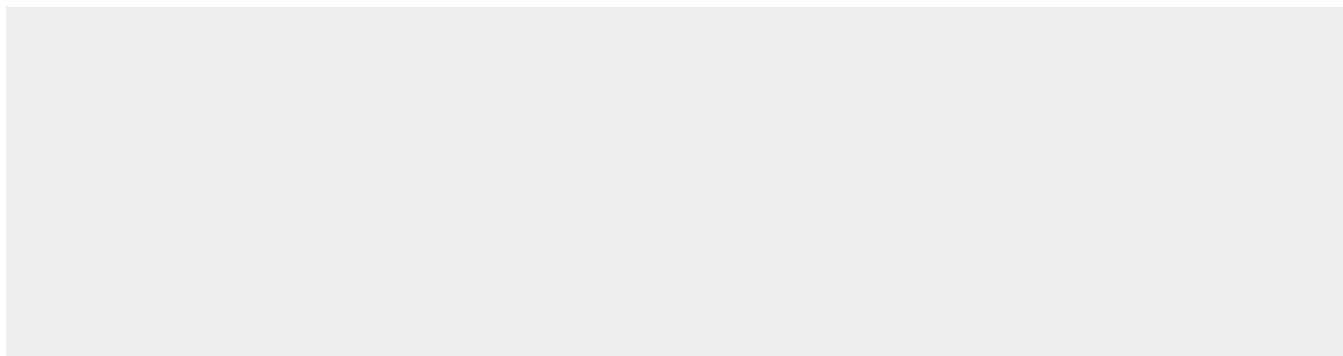
Ubiquitous..

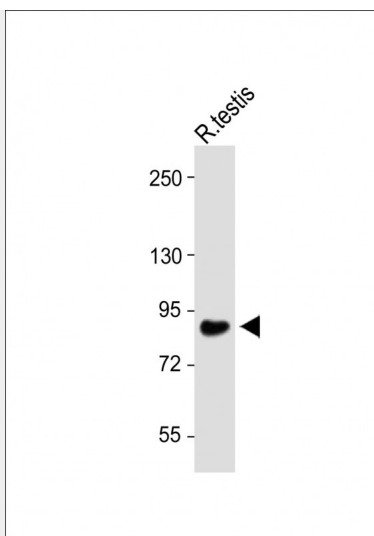
#### **WDR48 Antibody (C-term) - Protocols**

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

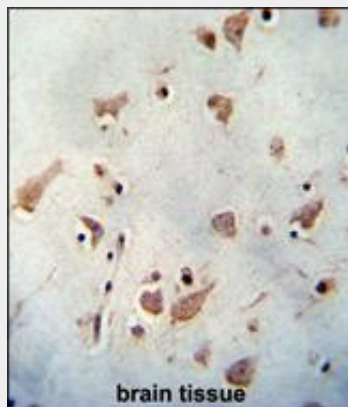
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **WDR48 Antibody (C-term) - Images**

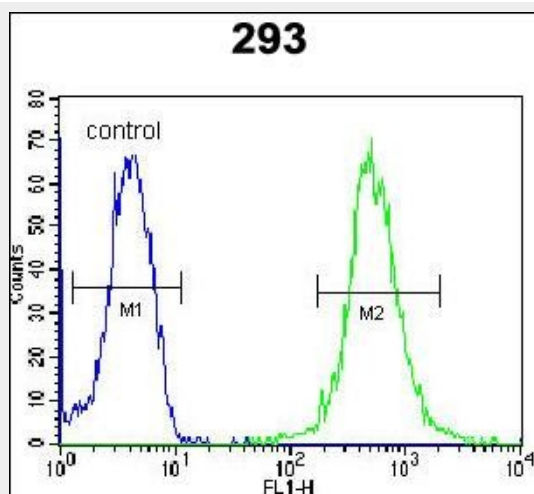




Anti-WDR48\_HUMAN at 1:1000 dilution + Rat testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 76 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



WDR48 antibody (C-term) (Cat. #AP10505b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the WDR48 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WDR48 Antibody (C-term) (Cat. #AP10505b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit

secondary antibodies were used for the analysis.

#### **WDR48 Antibody (C-term) - Background**

Regulator of deubiquitinating complexes. Acts as a strong activator of USP1 by enhancing the USP1-mediated deubiquitination of FANCD2; USP1 being almost inactive by itself. Also activates deubiquitinating activity of complexes containing USP12 and USP46, respectively. Activates deubiquitination by increasing the catalytic turnover without increasing the affinity of deubiquitinating enzymes for the substrate. In case of infection by Herpesvirus saimiri, may play a role in vesicular transport or membrane fusion events necessary for transport to lysosomes. Induces lysosomal vesicle formation via interaction with Herpesvirus saimiri tyrosine kinase-interacting protein (TIP). Subsequently, TIP recruits tyrosine-protein kinase LCK, resulting in down-regulation of T-cell antigen receptor TCR. May play a role in generation of enlarged endosomal vesicles via interaction with TIP. In case of infection by papillomavirus HPV11, promotes the maintenance of the viral genome via its interaction with HPV11 helicase E1.

#### **WDR48 Antibody (C-term) - References**

Kee, Y., et al. J. Biol. Chem. 285(15):11252-11257(2010)  
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Cote-Martin, A., et al. J. Virol. 82(3):1271-1283(2008)  
Cohn, M.A., et al. Mol. Cell 28(5):786-797(2007)  
Park, J., et al. J. Virol. 77(16):9041-9051(2003)