

## Product datasheet

# Anti-WDR79 antibody ab224444

6 Images

### Overview

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<b>Product name</b>	Anti-WDR79 antibody
<b>Description</b>	Rabbit polyclonal to WDR79
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human WDR79 aa 100-250. Database link: <a href="#">Q9BUR4</a> <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: WDR79 over-expression - HEK-293T whole cell lysate; IHC-P: Human Fallopian tube, kidney and skin tissue; ICC: A431 cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab224444 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/20 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 59 kDa.

## Target

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### Function

Essential component of the telomerase holoenzyme complex, a ribonucleoprotein complex essential for the replication of chromosome termini that elongates telomeres in most eukaryotes. In the telomerase holoenzyme complex, it controls telomerase localization to Cajal body. Required for delivery of TERC to telomeres during S phase and for telomerase activity. Binds small Cajal body RNAs (scaRNAs). The mRNA encoding this protein plays a critical role in the regulation of p53 expression at the post-transcriptional level; it is involved both in maintaining basal p53 mRNA levels and in p53 induction upon DNA damage.

### Tissue specificity

Expressed in all tissues and cell lines examined.

### Involvement in disease

Defects in WRAP53 are the cause of dyskeratosis congenita autosomal recessive type 3 (DKCB3) [MIM:613988]. A rare multisystem disorder caused by defective telomere maintenance. It is characterized by progressive bone marrow failure, and the clinical triad of reticulated skin hyperpigmentation, nail dystrophy, and mucosal leukoplakia. Common but variable features include premature graying, aplastic anemia, low platelets, osteoporosis, pulmonary fibrosis, and liver fibrosis among others. Early mortality is often associated with bone marrow failure, infections, fatal pulmonary complications, or malignancy.

### Sequence similarities

Contains 6 WD repeats.

### Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

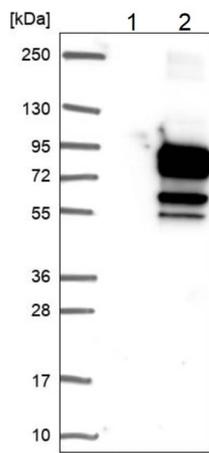
### Cellular localization

Nucleus > Cajal body. Cytoplasm.

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## Images

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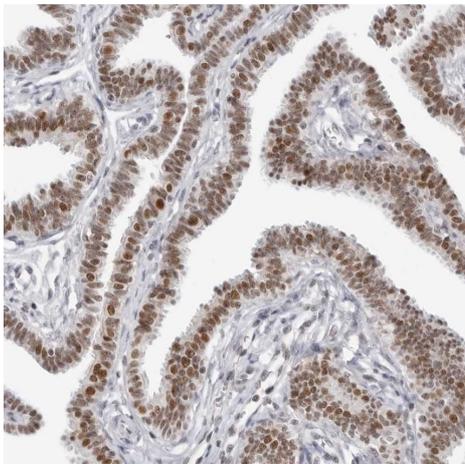
Western blot - Anti-WDR79 antibody (ab224444)

**All lanes :** Anti-WDR79 antibody (ab224444) at 0.4  $\mu\text{g/ml}$

**Lane 1 :** Control (vector only transfected) - HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

**Lane 2 :** WDR79 over-expression - HEK-293T whole cell lysate, Co-expressed with a C-terminal myc-DDK tag (~3.1 kDa)

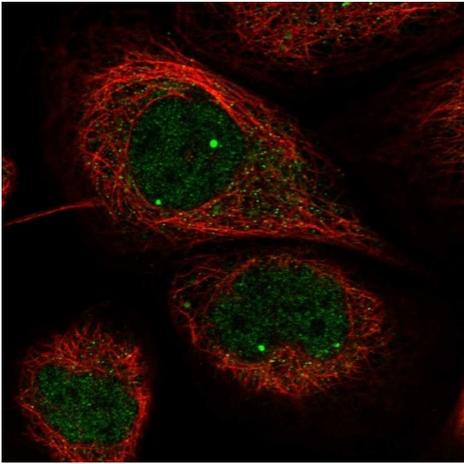
**Predicted band size:** 59 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR79 antibody (ab224444)

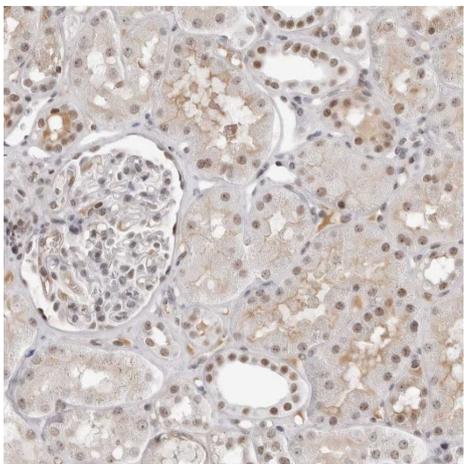
Immunohistochemical analysis of human Fallopian tube tissue labeling WDR79 in the nucleus of glandular cells with ab224444 at 1/20 dilution.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-WDR79 antibody (ab224444)

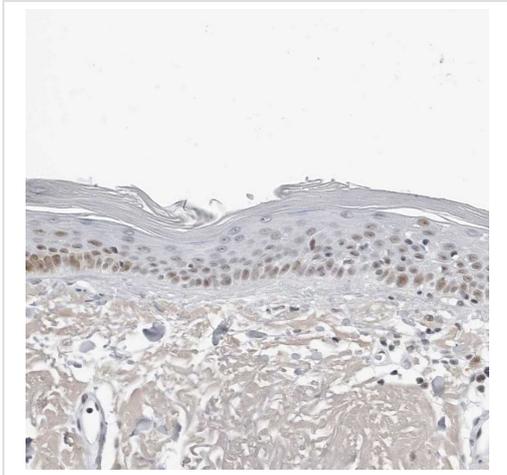
Immunofluorescent analysis of A431 (human epidermoid carcinoma cell line) cells labeling WDR79 (green) in nuclear bodies with ab224444 at 2  $\mu\text{g/ml}$ .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR79 antibody (ab224444)

Immunohistochemical analysis of human kidney tissue labeling WDR79 in the nucleus of cells in tubules with ab224444 at 1/20 dilution.

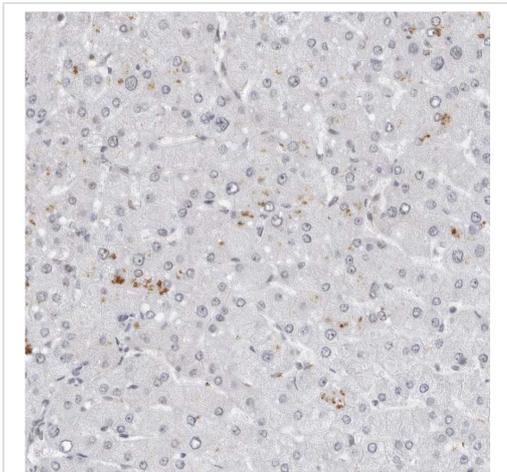
Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR79 antibody (ab224444)

Immunohistochemical analysis of human skin tissue labeling WDR79 in the nucleus of squamous epithelial cells with ab224444 at 1/20 dilution.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR79 antibody (ab224444)

Immunohistochemical analysis of human liver tissue labeling WDR79 with ab224444 at 1/20 dilution. No positivity as expected.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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