




## Product datasheet

# Anti-Tankyrase 2/TNKS2 antibody ab155545

3 Images

### Overview

<b>Product name</b>	Anti-Tankyrase 2/TNKS2 antibody
<b>Description</b>	Rabbit polyclonal to Tankyrase 2/TNKS2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Tankyrase 2/TNKS2 aa 1-44 (N terminal). Carrier-protein conjugated synthetic peptide. Sequence: MSGRRCAGGGAACASAAAEAVEPAARELFEACRNGDV ERVKRLV  Database link: <a href="#">Q9H2K2</a>   <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	ICC/IF: HeLa cells. WB: Jurkat, Raji, NCI-H929, A431, HeLa and HepG2 whole cell lysates.
<b>General notes</b>	Previously labelled as Tankyrase 2.  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.  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&As

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 10% Glycerol (glycerin, glycerine), 1.21% Tris, 0.75% Glycine

<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab155545 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
WB		1/500 - 1/3000. Predicted molecular weight: 127 kDa.
ICC/IF		1/100 - 1/1000.

## Target

### Function

Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking. Acts as an activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation of AXIN1 and AXIN2, 2 key components of the beta-catenin destruction complex: poly-ADP-ribosylated target proteins are recognized by RNF146, which mediates their ubiquitination and subsequent degradation. Also mediates poly-ADP-ribosylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination. Mediates poly-ADP-ribosylation of TERF1, thereby contributing to the regulation of telomere length. May also regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles.

### Tissue specificity

Highly expressed in placenta, skeletal muscle, liver, brain, kidney, heart, thymus, spinal cord, lung, peripheral blood leukocytes, pancreas, lymph nodes, spleen, prostate, testis, ovary, small intestine, colon, mammary gland, breast and breast carcinoma, and in common-type meningioma. Highly expressed in fetal liver, heart and brain.

### Sequence similarities

Contains 15 ANK repeats.  
Contains 1 PARP catalytic domain.  
Contains 1 SAM (sterile alpha motif) domain.

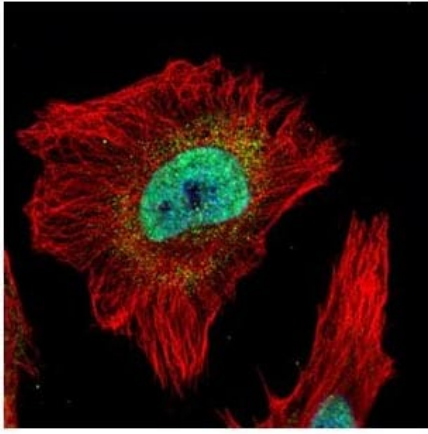
### Post-translational modifications

Ubiquitinated at 'Lys-48' and 'Lys-63' by RNF146 when auto-poly-ADP-ribosylated; this leads to degradation.  
ADP-ribosylated (-auto). Poly-ADP-ribosylated protein is recognized by RNF146, followed by ubiquitination.  
The crystallographic evidence suggests that the 3-hydroxyhistidine may be the (3S) stereoisomer.

### Cellular localization

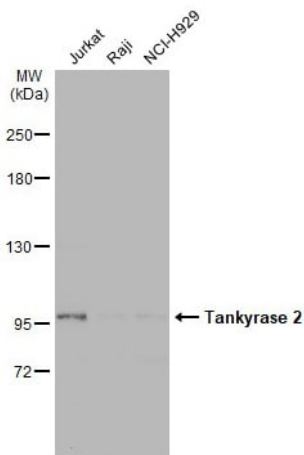
Cytoplasm. Golgi apparatus membrane. Nucleus. Chromosome > telomere. Associated with the Golgi and with juxtannuclear SLC2A4/GLUT4-vesicles. Also found around the pericentriolar matrix of mitotic centromeres. During interphase, a small fraction of TNKS2 is found in the nucleus, associated with TRF1.

## Images



Immunocytochemistry/ Immunofluorescence - Anti-Tankyrase 2/TNKS2 antibody (ab155545)

Confocal immunofluorescence analysis of paraformaldehyde-fixed HeLa, labeling Tankyrase 2/TNKS2 (green) with ab155545 at 1/500 dilution. alpha-Tubulin is stained red.



Western blot - Anti-Tankyrase 2/TNKS2 antibody (ab155545)

**All lanes** : Anti-Tankyrase 2/TNKS2 antibody (ab155545) at 1/500 dilution

**Lane 1** : Jurkat whole cell extracts

**Lane 2** : Raji whole cell extracts

**Lane 3** : NCI-H929 whole cell extracts

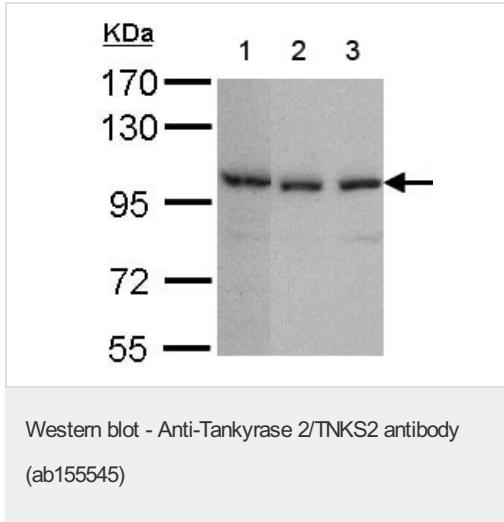
Lysates/proteins at 30 µg per lane.

#### Secondary

**All lanes** : anti-rabbit IgG antibody at 1/10000 dilution

**Predicted band size:** 127 kDa

10% gel. Running conditions: 80V, 15min; 140V, 40 min. Transfer conditions: Semi-dry, 18 V, 60 min (Nitrocellulose membrane). Blocking: 5% non-fat milk in TBST, RT, 60 min. Primary antibody incubation at 4°C overnight. Washing: 5 ml TBST, 4 x 5 min. ECL exposure.



**All lanes :** Anti-Tankyrase 2/TNKS2 antibody (ab155545) at 1/1000 dilution

**Lane 1 :** A431 whole cell lysate

**Lane 2 :** HeLa whole cell lysate

**Lane 3 :** HepG2 whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 127 kDa

7.5% SDS PAGE

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

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