

# Anti-Tankyrase 2 Antibody [PSH0-53]

## HA721400



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Rat
<b>Applications:</b>	WB, IF-Cell
<b>Molecular Wt:</b>	Predicted band size: 127 kDa
<b>Clone number:</b>	PSH0-53

**Description:** 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. Stimulates 26S proteasome activity.

**Immunogen:** Recombinant protein within human Tankyrase 2 aa 451-700/1,166.

**Positive control:** PC-12 treated with 1 $\mu$ M XAV939 for 24 hours whole cell lysate, PC-12 treated with 1 $\mu$ M XAV939 for 48 hours whole cell lysate, A431.

**Subcellular location:** Cytoplasm, Golgi apparatus membrane, Nucleus, Chromosome, telomere.

**Database links:** SwissProt: Q9H2K2 Human  
Entrez Gene: 309512 Rat

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:250

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4 $^{\circ}$ C. Store at +4 $^{\circ}$ C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20 $^{\circ}$ C long term.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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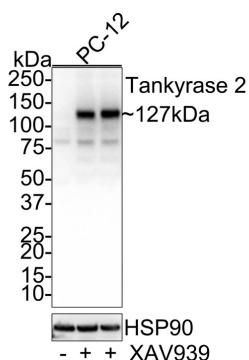
## Images

**Fig1:** Western blot analysis of Tankyrase 2 on different lysates with Rabbit anti-Tankyrase 2 antibody (HA721400) at 1/1,000 dilution.

Lane 1: PC-12 whole cell lysate

Lane 2: PC-12 treated with 1 $\mu$ M XAV939 for 24 hours whole cell lysate

Lane 3: PC-12 treated with 1 $\mu$ M XAV939 for 48 hours whole cell lysate



Lysates/proteins at 30  $\mu$ g/Lane.

Predicted band size: 127 kDa

Observed band size: 127 kDa

Exposure time: 10 seconds;

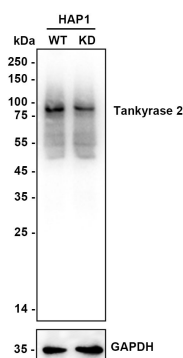
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA721400) at 1/1,000 dilution was used in 5% NFDm/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of Tankyrase 2 on different lysates with Rabbit anti-Tankyrase 2 antibody (HA721400) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate

Lane 2: HAP1-Tankyrase 2 KD cell lysate



Lysates/proteins at 10  $\mu$ g/Lane.

Predicted band size: 127 kDa

Observed band size: 90 kDa

Exposure time: 4 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA721400) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4 $^{\circ}$ C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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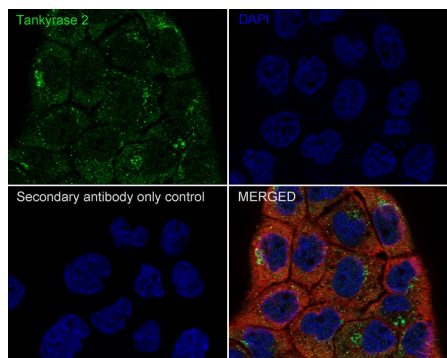
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**Fig3:** Immunocytochemistry analysis of A431 cells labeling Tankyrase 2 with Rabbit anti-Tankyrase 2 antibody (HA721400) at 1/250 dilution.



Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-Tankyrase 2 antibody (HA721400) at 1/250 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/200 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

### Background References

1. Wu M et al. Down-regulation of hsa\_circ\_0045474 induces macrophage autophagy in tuberculosis via miR-582-5p/TNKS2 axis. *Innate Immun.* 2022 Jan
2. Tomassi S et al. From PARP1 to TNKS2 Inhibition: A Structure-Based Approach. *ACS Med Chem Lett.* 2020 Feb

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