

Tankyrase Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59144**Specification**

Tankyrase Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O95271
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	142039

Tankyrase Polyclonal Antibody - Additional Information**Gene ID** 8658**Other Names**

Poly [ADP-ribose] polymerase tankyrase-1, 2.4.2.30, ADP-ribosyltransferase diphtheria toxin-like 5, ARTD5, Poly [ADP-ribose] polymerase 5A, Protein poly-ADP-ribosyltransferase tankyrase-1, 2.4.2.-, TNKS-1, TRF1-interacting ankyrin-related ADP-ribose polymerase, Tankyrase I, Tankyrase-1, TANK1, TNKS ([HGNC:11941](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=11941))

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Tankyrase Polyclonal Antibody - Protein Information**Name** TNKS ([HGNC:11941](#))**Function**

Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking (PubMed:[10988299](http://www.uniprot.org/citations/10988299), PubMed:[11739745](http://www.uniprot.org/citations/11739745), PubMed:[16076287](http://www.uniprot.org/citations/16076287), PubMed:[19759537](http://www.uniprot.org/citations/19759537), PubMed:[21478859](http://www.uniprot.org/citations/21478859), PubMed:[22864114](http://www.uniprot.org/citations/22864114), PubMed:[23622245](http://www.uniprot.org/citations/23622245), PubMed:[25043379](http://www.uniprot.org/citations/25043379), PubMed:[28619731](http://www.uniprot.org/citations/28619731)). Acts as an activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation (PARsylation) 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 (PubMed:19759537, PubMed:21478859). Also mediates PARsylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination (PubMed:21478859). Mediates PARsylation of TERF1, thereby contributing to the regulation of telomere length (PubMed:11739745). Involved in centrosome maturation during prometaphase by mediating PARsylation of HEPACAM2/MIK1 (PubMed:22864114). May also regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles (PubMed:10988299). May be involved in spindle pole assembly through PARsylation of NUMA1 (PubMed:16076287). Stimulates 26S proteasome activity (PubMed:23622245).

Cellular Location

Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Nucleus, nuclear pore complex. Chromosome, telomere. Cytoplasm, cytoskeleton, spindle pole. Note=Associated with the Golgi and with juxtannuclear SLC2A4/GLUT4-vesicles (PubMed:22864114). A minor proportion is also found at nuclear pore complexes and around the pericentriolar matrix of mitotic centromeres (PubMed:10523501). During interphase, a small fraction of TNKS is found in the nucleus, associated with TERF1 (PubMed:12768206). Localizes to spindle poles at mitosis onset via interaction with NUMA1 (PubMed:12080061)

Tissue Location

Ubiquitous; highest levels in testis.

Tankyrase Polyclonal Antibody - 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](#)

Tankyrase Polyclonal Antibody - Images