

Tnks 2 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5313b**Specification**

Tnks 2 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O9H2K2](#)
Other Accession [NP_079511.1](#)

Tnks 2 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 80351

Other Names

Tankyrase-2, TANK2, ADP-ribosyltransferase diphtheria toxin-like 6, ARTD6, Poly [ADP-ribose] polymerase 5B, TNKS-2, TRF1-interacting ankyrin-related ADP-ribose polymerase 2, Tankyrase II, Tankyrase-like protein, Tankyrase-related protein, TNKS2, PARP5B, TANK2, TNKL

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Tnks 2 Antibody (C-term) Blocking peptide - Protein Information

Name TNKS2 ([HGNC:15677](#))

Function

Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking (PubMed: [11739745](http://www.uniprot.org/citations/11739745), PubMed: [11802774](http://www.uniprot.org/citations/11802774), PubMed: [19759537](http://www.uniprot.org/citations/19759537), PubMed: [21478859](http://www.uniprot.org/citations/21478859), PubMed: [23622245](http://www.uniprot.org/citations/23622245), PubMed: [25043379](http://www.uniprot.org/citations/25043379)). 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 (PubMed: [19759537](http://www.uniprot.org/citations/19759537), PubMed: [21478859](http://www.uniprot.org/citations/21478859)). Also mediates poly-ADP-ribosylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination (PubMed: [21478859](http://www.uniprot.org/citations/21478859))

target="_blank">21478859). Mediates poly-ADP-ribosylation of TRF1, thereby contributing to the regulation of telomere length (PubMed:11739745). Stimulates 26S proteasome activity (PubMed:23622245).

Cellular Location

Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein. Nucleus. Chromosome, telomere Note=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

Tissue Location

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

Tnks 2 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Tnks 2 Antibody (C-term) Blocking peptide - Images

Tnks 2 Antibody (C-term) Blocking peptide - Background

Tnks 2 may regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles. Tnks 2 has PARP activity and can modify TRF1, and thereby contribute to the regulation of telomere length.

Tnks 2 Antibody (C-term) Blocking peptide - References

Varadi, V., et al. Eur. J. Cancer 45(17):3008-3016(2009)Shebzukhov, Y.V., et al. Cancer Immunol. Immunother. 57(6):871-881(2008)Sidorova, N.N., et al. Biochemistry Mosc. 73(3):289-295(2008)