

Tnks 2 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5313b**Specification**

Tnks 2 Antibody (C-term) - Product Information

Application	FC, WB,E
Primary Accession	O9H2K2
Other Accession	O3UES3 , NP_079511.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	126918
Antigen Region	1126-1156

Tnks 2 Antibody (C-term) - 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

Target/Specificity

This Tnks 2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1126-1156 amino acids from the C-terminal region of human Tnks 2.

Dilution

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Tnks 2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Tnks 2 Antibody (C-term) - 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](#), PubMed:[11802774](#), PubMed:[19759537](#), PubMed:[21478859](#), PubMed:[23622245](#), PubMed:[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](#), PubMed:[21478859](#)). Also mediates poly-ADP-ribosylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination (PubMed:[21478859](#)). Mediates poly-ADP-ribosylation of TERF1, 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 juxtanuclear 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

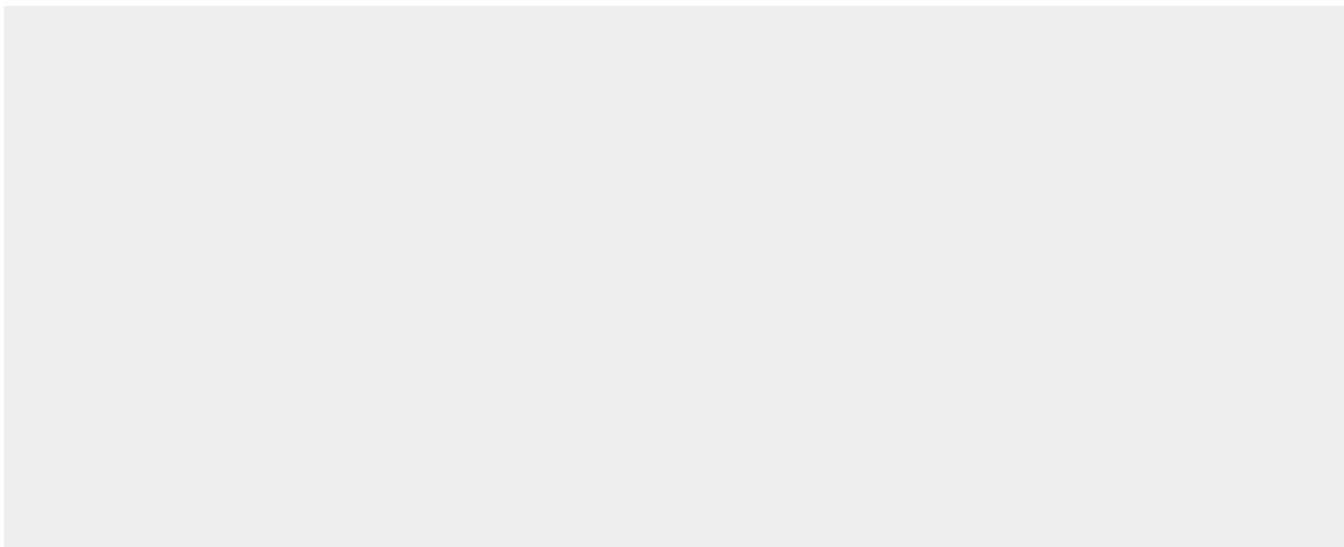
Tissue Location

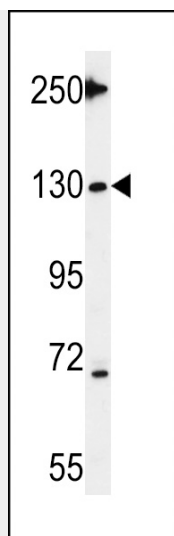
Highly expressed in placenta, skeletal muscle, liver, brain, kidney, heart, thymus, spinal cord, lung, peripheral blood leukocytes, pancreas, lymph nodes, spleen, prostate, testis, ovary, small intestine, colon, mammary gland, breast and breast carcinoma, and in common-type meningioma. Highly expressed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

Tnks 2 Antibody (C-term) - Protocols

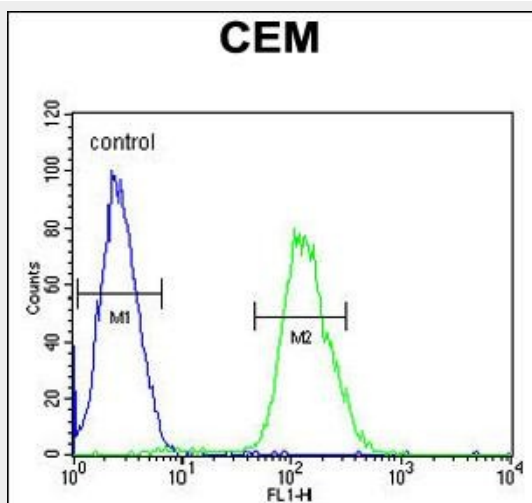
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Tnks 2 Antibody (C-term) - Images



Tnks 2 Antibody (C-term) (Cat. #AP5313b) western blot analysis in mouse testis tissue lysates (35ug/lane). This demonstrates the Tnks 2 antibody detected Tnks 2 protein (arrow).



Tnks 2 Antibody (C-term) (Cat. #AP5313b) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Tnks 2 Antibody (C-term) - 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) - 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)