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Tnks2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP6291a

Specification

Tnks2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q3UES3

Tnks2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 74493

Other Names
Tankyrase-2, TANK2, ADP-ribosyltransferase diphtheria toxin-like 6, ARTD6, TNKS-2, TRF1-interacting ankyrin-related ADP-ribose polymerase 2, Tankyrase II, Tnks2, Tank2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6291a was selected from the N-term region of human Tnks2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

Tnks2 Antibody (N-term) Blocking Peptide - Protein Information

Name Tnks2 {ECO:0000312|MGI:MGI:1921743}

Synonyms Tank2

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. Stimulates 26S proteasome activity.

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q9H2K2}. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q9H2K2}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9H2K2}. Nucleus {ECO:0000250|UniProtKB:Q9H2K2}. Chromosome, telomere {ECO:0000250|UniProtKB:Q9H2K2}. Note=Associated with the Golgi and with juxtanuclear SLC2A4/GLUT4-vesicles (By similarity). Also found around the pericentriolar matrix of mitotic centromeres (By similarity) During interphase, a small fraction of TNKS2 is found in the nucleus, associated with TRF1 (By similarity). {ECO:0000250|UniProtKB:Q9H2K2}

Tnks2 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Tnks2 Antibody (N-term) Blocking Peptide - Images

Tnks2 Antibody (N-term) Blocking Peptide - Background

Tnks2 may regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles. It has PARP activity and can modify TRF1, thereby contributing to the regulation of telomere length.

Tnks2 Antibody (N-term) Blocking Peptide - References

Kuimov,A.N., Genes Immun. 2 (1), 52-55 (2001)