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TANK2 Antibody (internal region)

Peptide-affinity Purified goat antibody
Catalog # AF2232a

Specification

TANK2 Antibody (internal region) - Product Information

Application	**WB**
Primary Accession	Q9H2K2
Other Accession	NP_079511.1, 80351
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**126918**

TANK2 Antibody (internal region) - Additional Information

Gene ID 80351

Other Names
Tankyrase-2, TANK2, 2.4.2.30, 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

Dilution
WB~~1:1000

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TANK2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

TANK2 Antibody (internal region) - 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:<a

href="http://www.uniprot.org/citations/11739745" target="_blank">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

TANK2 Antibody (internal region) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TANK2 Antibody (internal region) - Images

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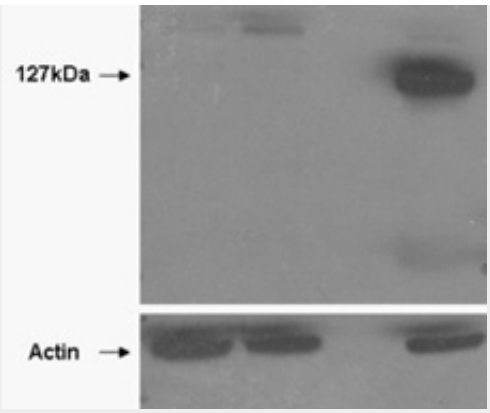

HEK293 overexpressing TANK2 (lane 4) and TANK1 (lane 2) and probed with AF2232a (mock transfection in first lane). Lane three is empty. Lower panel shows the same lysates probed for alpha-Actin to show protein levels. Primary incubation (0.5ug/ml) was overnight at 4°C. Detected by chemiluminescence.

TANK2 Antibody (internal region) - Background

Fusion protein containing 73 aas from region aa800-900 (according to NP_079511.1). No crossreactivity expected with TANK1.

TANK2 Antibody (internal region) - References

Immunohistochemical detection of tankyrase 2 in human breast tumors and normal renal tissue. Sidorova N, Zavalishina L, Kurchashova S, Korsakova N, Nazhimov V, Frank G, Kuimov A. Cell Tissue Res. 2006 Jan;323(1):137-45. Epub 2005 Sep 3. PMID: 16151859