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Goat Anti-Tankyrase 2 Antibody

Peptide-affinity purified goat antibody
Catalog # AF2066a

Specification

Goat Anti-Tankyrase 2 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q9H2K2
Other Accession	NP_079511, 80351, 74493 (mouse)
Reactivity	**Human**
Predicted	**Mouse, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**126918**

Goat Anti-Tankyrase 2 Antibody - 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
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, 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
Goat Anti-Tankyrase 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Tankyrase 2 Antibody - 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

Goat Anti-Tankyrase 2 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 Cytomety
- Cell Culture

Goat Anti-Tankyrase 2 Antibody - Images

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AF2066a (0.5 µg/ml) staining of Jurkat lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Tankyrase 2 Antibody - References

Telomere length and genetic analyses in population-based studies of endometrial cancer risk. Prescott J, et al. Cancer, 2010 Sep 15. PMID 20549820.
New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.
Polymorphisms in telomere-associated genes, breast cancer susceptibility and prognosis. Varadi V, et al. Eur J Cancer, 2009 Nov. PMID 19766477.
Isolation and physicochemical properties of tankyrase of human embryonic kidney cells of line 293. Sidorova NN, et al. Biochemistry (Mosc), 2008 Mar. PMID 18393764.
Human tankyrases are aberrantly expressed in colon tumors and contain multiple epitopes that induce humoral and cellular immune responses in cancer patients. Shebzukhov YV, et al. Cancer Immunol Immunother, 2008 Jun. PMID 18026951.