Human Tankyrase 1 Alexa Fluor® 700-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7116N
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Tankyrase 1 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Tankyrase 1 Ala943-Gly1039 Accession # O95271
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

TNKS (Tankyrase; also TRF1-interacting, ANKYrin-Related ADP-ribose polymerase and TNKS1, TANK1 and PARP5A) is a 165-170 kDa member of the PARP family of proteins. It is ubiquitously expressed and participates in at least two critical cellular functions. First, via ribosylation activity, it inhibits TRF1, a regulator of telomere length. This promotes chromosomal lengthening. Second, it activates the Wnt signaling pathway by promoting Axin-1 and -2 degradation, resulting in β-catenin activation. Human TNKS is 1327 amino acids (aa) in length. It contains polyHis, Pro and Ser regions (aa 9-134), 15 ankyrin repeats (aa 215-934), one SAM motif (aa 1030-1089) and a PARP catalytic domain (aa 1112-1317). There are three potential splice variants. One shows a three aa substitution for aa 640-1327, another contains a 43 aa substitution for aa 1-327, while a third possesses a 20 aa substitution for aa 300-327. Over aa 943-1039, human TNKS shares 97% aa identity with mouse TNKS.

PRODUCT SPECIFIC NOTICES

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