

DESCRIPTION

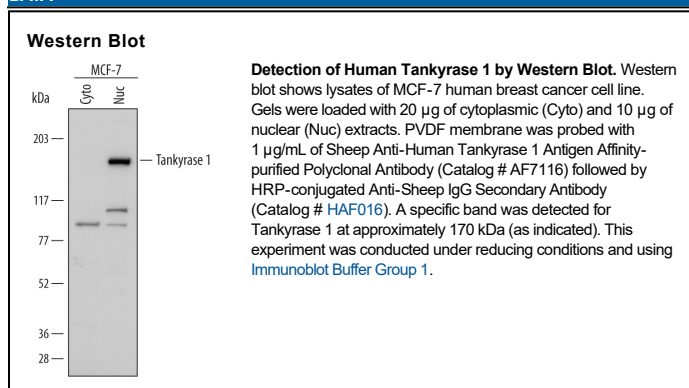
Species Reactivity	Human
Specificity	Detects human Tankyrase 1 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Tankyrase 1 Ala943-Gly1039 Accession # O95271
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.