

## Recombinant Human tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2 Protein, His tagged

Cat. No. TNKS2-033H Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant human TNKS2 protein (Q9H2K2) (Gly 488-Leu 649) with a His tag at the C-terminus was expressed in E. coli.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | 488-649aa  |
| <b>Description</b>      | 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. |
| <b>Tag</b>              | C-His  |
| <b>Molecular Mass</b>   | 19.3 kDa   |
| <b>Endotoxin</b>        | Less than 1.0 EU/μg by the LAL method.   |

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|                       |   |
|-----------------------|---|
| <b>Purity</b>         | >95% as determined by SDS-PAGE.   |
| <b>Storage</b>        | Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.   |
| <b>Reconstitution</b> | Reconstitute at 250 µg/mL in sterile water.   |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | TNKS2 tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2 [ Homo sapiens (human) ]  |
| <b>Official Symbol</b> | TNKS2   |
| <b>Synonyms</b>        | TNKS2; tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2; tankyrase-2; PARP 5b; PARP 5c; PARP5B; PARP5C; pART6; TANK2; TNKL; TNKS-2; tankyrase 2; tankyrase II; tankyrase-like protein; tankyrase-related protein; poly [ADP-ribose] polymerase 5B; TRF1-interacting ankyrin-related ADP-ribose polymerase 2; PARP-5b; PARP-5c; |
| <b>Gene ID</b>         | 80351   |
| <b>mRNA Refseq</b>     | NM_025235   |
| <b>Protein Refseq</b>  | NP_079511   |
| <b>MIM</b>             | 607128  |

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UniProt ID

Q9H2K2

Protein on SDS-  
PAGE under  
reducing (R)  
condition.



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