

Datasheet for ABIN2733558

**TPK1 Protein (Transcript Variant 1) (Myc-DYKDDDDK Tag)**[Go to Product page](#)[1 Image](#)[1 Publication](#)

## Overview

Quantity:	20 µg
Target:	TPK1
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TPK1 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)

## Product Details

Characteristics:	<ul style="list-style-type: none"><li>• Recombinant human Thiamine pyrophosphokinase 1 (TPK1) (transcript variant 1) protein expressed in HEK293 cells.</li><li>• Produced with end-sequenced ORF clone</li></ul>
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining

## Target Details

Target:	TPK1
Alternative Name:	Thiamine Pyrophosphokinase 1 (Tpk1) ( <a href="#">TPK1 Products</a> )
Background:	This gene encodes a protein, that exists as a homodimer, which catalyzes the conversion of thiamine to thiamine pyrophosphate. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

## Target Details

Molecular Weight: 27.1 kDa

NCBI Accession: [NP\\_071890](#)

## Application Details

Application Notes: Recombinant human proteins can be used for:  
Native antigens for optimized antibody production  
Positive controls in ELISA and other antibody assays

Comment: The tag is located at the C-terminal.

Restrictions: For Research Use only

## Handling

Concentration: 50 µg/mL

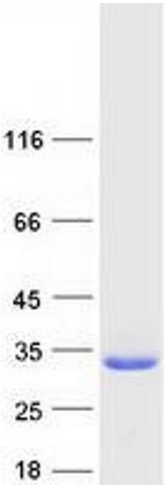
Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

## Publications

Product cited in: Zhang, Zhang, Diamond, Boer, Harris, Li, Rupa, Behshad, Gardiner, Collier, Liu, Burn, Wynn, Hollis, Yeleswaram: "The Janus kinase 2 inhibitor fedratinib inhibits thiamine uptake: a putative mechanism for the onset of Wernicke's encephalopathy." in: **Drug metabolism and disposition: the biological fate of chemicals**, Vol. 42, Issue 10, pp. 1656-62, (2014) ([PubMed](#)).



Western Blotting

**Image 1.** Validation with Western Blot