

Datasheet for ABIN2721523

**Glucose-6-Phosphate Dehydrogenase Protein (G6PD)  
(Transcript Variant 1) (Myc-DYKDDDDK Tag)**[Go to Product page](#)**1** Image**1** Publication

## Overview

Quantity:	20 µg
Target:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Glucose-6-Phosphate Dehydrogenase 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 G6PD (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:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Alternative Name:	g6pd ( <a href="#">G6PD Products</a> )
Background:	<p>This gene encodes glucose-6-phosphate dehydrogenase. This protein is a cytosolic enzyme encoded by a housekeeping X-linked gene whose main function is to produce NADPH, a key electron donor in the defense against oxidizing agents and in reductive biosynthetic reactions.</p> <p>G6PD is remarkable for its genetic diversity. Many variants of G6PD, mostly produced from</p>

## Target Details

missense mutations, have been described with wide ranging levels of enzyme activity and associated clinical symptoms. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-spherocytic hemolytic anemia. Two transcript variants encoding different isoforms have been found for this gene.

Molecular Weight: 62.3 kDa

NCBI Accession: [NP\\_000393](#)

Pathways: [Regulation of Systemic Arterial Blood Pressure by Hormones](#)

## 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

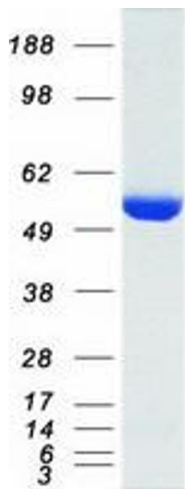
Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

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: Bardy, van den Hurk, Kakaradov, Erwin, Jaeger, Hernandez, Eames, Paucar, Gorris, Marchand, Jappelli, Barron, Bryant, Kellogg, Lasken, Rutten, Steinbusch, Yeo, Gage: "Predicting the functional states of human iPSC-derived neurons with single-cell RNA-seq and electrophysiology." in: **Molecular psychiatry**, Vol. 21, Issue 11, pp. 1573-1588, (2016) ([PubMed](#)).



Western Blotting

Image 1. Validation with Western Blot