



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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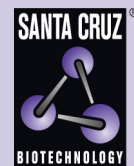
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# GPI (h2): 293T Lysate: sc-170846

## BACKGROUND

Glucose-6-phosphate isomerase (GPI) has many other names, including Phosphohexose isomerase (PHI), Neuroleukin (NLK) and Spermantigen-36 (SA-36). GPI is a cytoplasmic homodimer belonging to the GPI family. It is a neurotrophic factor for spinal and sensory neurons and is involved in glycolysis and gluconeogenesis. Defects or mutations in GPI can cause hereditary nonspherocytic hemolytic anemia (HA), hydrops fetalis, immediate neonatal death and neurological impairment.

## REFERENCES

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3. Schulz, L.C. and Bahr, J.M. 2003. Glucose-6-phosphate isomerase is necessary for embryo implantation in the domestic ferret. *Proc. Natl. Acad. Sci. USA* 100: 8561-8566.
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5. Graham Solomons, J.T., Zimmerly, E.M., Burns, S., Krishnamurthy, N., Swan, M.K., Krings, S., Muirhead, H., Chirgwin, J. and Davies, C. 2004. The crystal structure of mouse phosphoglucose isomerase at 1.6Å resolution and its complex with glucose 6-phosphate reveals the catalytic mechanism of sugar ring opening. *J. Mol. Biol.* 342: 847-860.
6. Schubert, D., Maier, B., Morawietz, L., Krenn, V. and Kamradt, T. 2004. Immunization with glucose-6-phosphate isomerase induces T cell-dependent peripheral polyarthritis in genetically unaltered mice. *J. Immunol.* 172: 4503-4509.
7. <http://harvester.embl.de/harvester/P067/P06744.htm>

## CHROMOSOMAL LOCATION

Genetic locus: GPI (human) mapping to 19q13.11.

## PRODUCT

GPI (h2): 293T Lysate represents a lysate of human GPI transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

GPI (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive GPI antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.