



## International Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB07841 - Goat Anti-G6PD (aa 308 - 320) Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** G6PD, glucose-6-phosphate dehydrogenase, G6PD1, glucose-6-phosphate 1-dehydrogenase, glucose-6-phosphate dehydrogenase, G6PD

**Official Symbol:** G6PD

**Accession Number(s):** NP\_000393.4 ; NP\_001035810.1

**Human GeneID(s):** [2539](#)

**Non-Human GeneID(s):** 14381 (mouse), 24377 (rat)

**Important Comments:** This antibody is expected to recognise both reported isoforms (NP\_000393.4 and NP\_001035810.1).

### Immunogen

Peptide with sequence C-STNSDDVRDEKVK, from the internal region of the protein sequence according to NP\_000393.4 ; NP\_001035810.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:32000.

**Western blot:** Approx 55-60kDa double band observed in Human Testis, Thyroid and Tonsil lysates (calculated MW of 62.5kDa according to NP\_000393.4 and 59.3kDa according to NP\_001035810.1). Recommended concentration: 0.03-0.1µg/ml. Primary incubation was 1 hour.

**IHC:** Paraffin embedded Human Testis and Spleen. Recommended concentration: 2.5µg/ml.

**Additional validation:** This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Mouse, Rat, Dog

### Specific References

**This antibody has been successfully used in the following paper:**

Adriana Ann Garcia, Irimpan I. Mathews, Naoki Horikoshi, Tsutomu Matsui, Manat Kaur, Soichi Wakatsuki, and Daria Mochly-Rosen

Stabilization of glucose-6-phosphate dehydrogenase oligomers enhances catalytic activity and stability of clinical variants.

J Biol Chem. 2022 Mar; 298(3): 101610.

PMID: 35065072

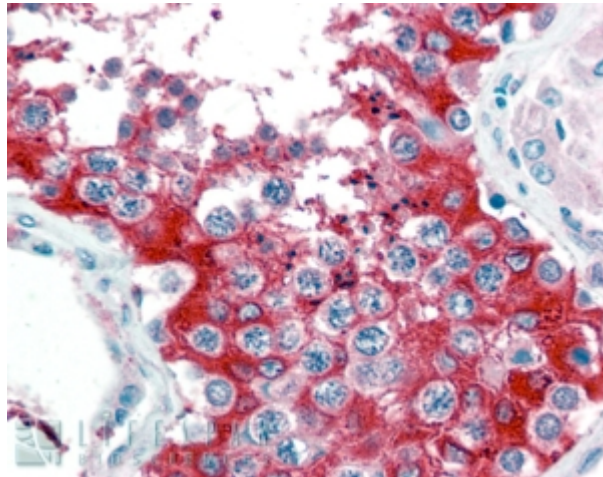
**This antibody has been successfully used in the following paper:**

Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars

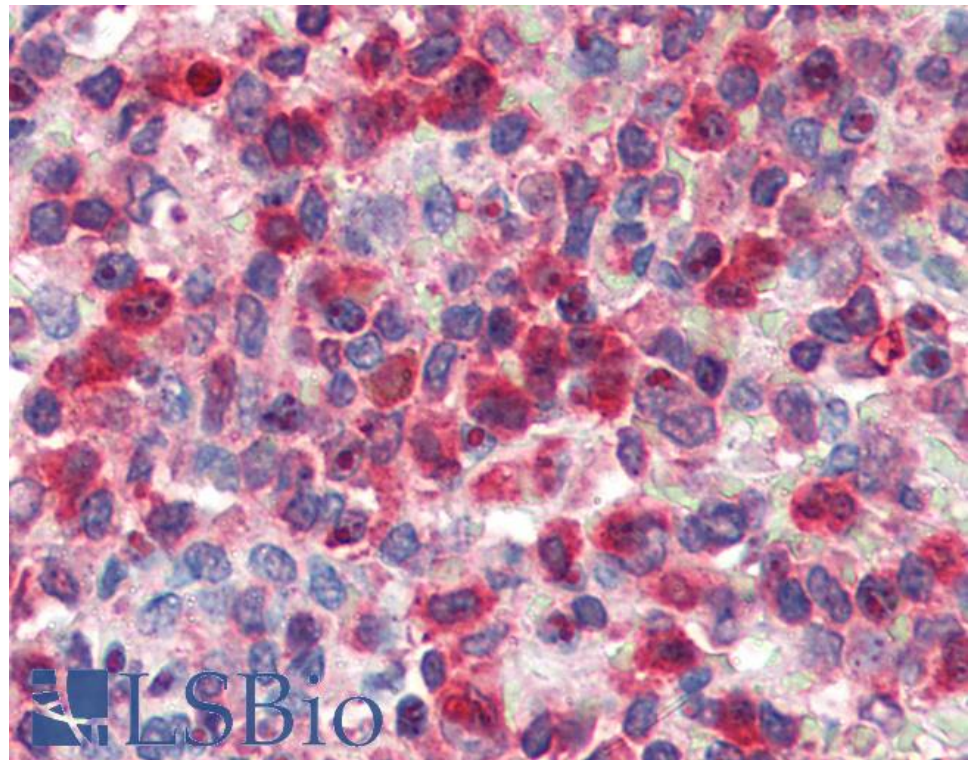
Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen  
A high-throughput pipeline for validation of antibodies  
Nat Methods. 2018 Nov;15(11):909-912  
PMID: 30377371

250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
25kDa  
20kDa  
15kDa

EB07841 (0.03µg/ml) staining of Human Testis lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB07841 (2.5µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB07841 (2.5µg/ml) staining of paraffin embedded Human Spleen. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.