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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 accordiong 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

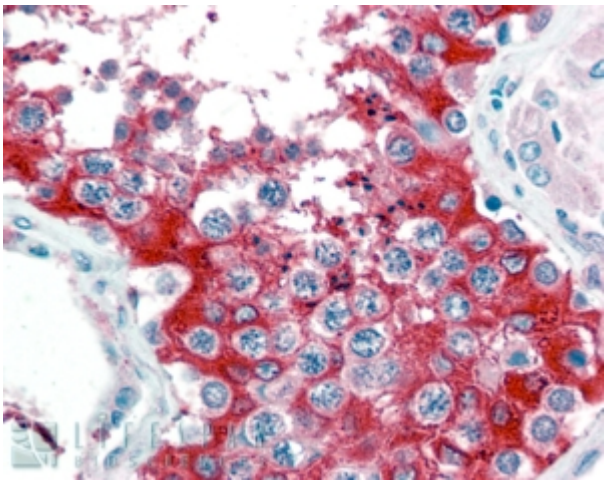
Specific References

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

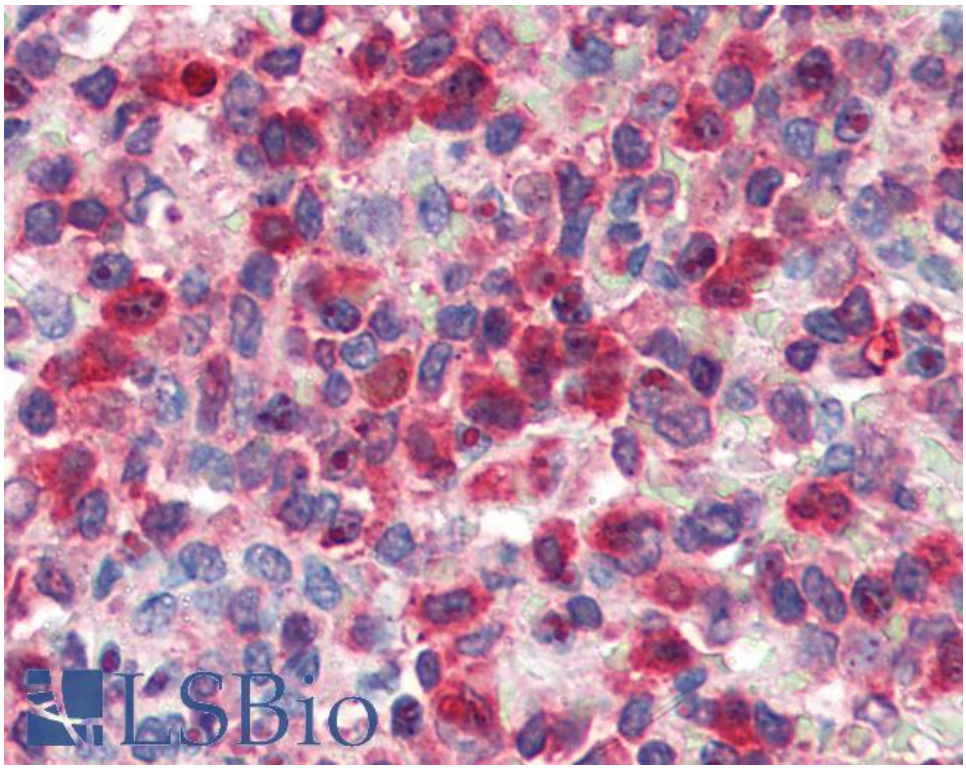
This antibody has been successfully used in the following paper:
Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars

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

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.