

GP73 (H-114): sc-134509

BACKGROUND

GP73 (also known as Golgi phosphoprotein 2, GOLPH 2 or Golgi membrane protein), is a widely expressed, epithelial-specific, type II transmembrane protein which resides in the Golgi apparatus, where it is responsible for the posttranslational modification of proteins produced in the rough ER while assisting in the transport of proteins through the Golgi. The human GP73 gene has been mapped within a BAC and localized to chromosome 9q21.33. GP73 levels rise in those who have been diagnosed with acute and chronic liver diseases.

REFERENCES

1. Kladney, R.D., Bulla, G.A., Guo, L., Mason, A.L., Tollefson, A.E., Simon, D.J., Koutoubi, Z. and Fimmel, C.J. 2000. GP73, a novel Golgi-localized protein upregulated by viral infection. *Gene* 249: 53-65.
2. Kladney, R.D., Cui, X., Bulla, G.A., Brunt, E.M. and Fimmel, C.J. 2002. Expression of GP73, a resident Golgi membrane protein, in viral and nonviral liver disease. *Hepatology* 35: 1431-1440.
3. Kladney, R.D., Tollefson, A.E., Wold, W.S. and Fimmel, C.J. 2002. Upregulation of the Golgi protein GP73 by adenovirus infection requires the E1A CtBP interaction domain. *Virology* 301: 236-246.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 606804. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Iftikhar, R., Kladney, R.D., Havlioglu, N., Schmitt-Gräff, A., Gusmirovic, I., Solomon, H., Luxon, B.A., Bacon, B.R. and Fimmel, C.J. 2004. Disease- and cell-specific expression of GP73 in human liver disease. *Am. J. Gastroenterol.* 99: 1087-1095.
6. Maitra, A. and Thuluvath, P.J. 2004. GP73 and liver disease: a (Golgi) complex enigma. *Am. J. Gastroenterol.* 99: 1096-1098.
7. Marrero, J.A., Romano, P.R., Nikolaeva, O., Steel, L., Mehta, A., Fimmel, C.J., Comunale, M.A., D'Amelio, A., Lok, A.S. and Block, T.M. 2005. GP73, a resident Golgi carcinoma. *J. Hepatol.* 43: 1007-1012.

CHROMOSOMAL LOCATION

Genetic locus: GOLM1 (human) mapping to 9q21.33; Golm1 (mouse) mapping to 13 B2.

SOURCE

GP73 (H-114) is a rabbit polyclonal antibody raised against amino acids 1-114 mapping at the N-terminus of GP73 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

GP73 (H-114) is recommended for detection of GP73 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

GP73 (H-114) is also recommended for detection of GP73 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for GP73 siRNA (h): sc-60711, GP73 siRNA (m): sc-60712, GP73 shRNA Plasmid (h): sc-60711-SH, GP73 shRNA Plasmid (m): sc-60712-SH, GP73 shRNA (h) Lentiviral Particles: sc-60711-V and GP73 shRNA (m) Lentiviral Particles: sc-60712-V.

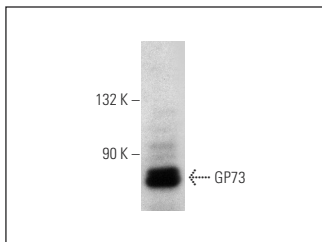
Molecular Weight of GP73: 73 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, mouse brain extract: sc-2253 or SW480 cell lysate: sc-2219.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



GP73 (H-114): sc-134509. Western blot analysis of GP73 expression in mouse brain tissue extract.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **GP73 (F-2): sc-365817** or **GP73 (E-7): sc-393935**, our highly recommended monoclonal alternatives to GP73 (H-114). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **GP73 (F-2): sc-365817**.