GP73 (G-2): sc-398230



The Power to Question

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

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- 2. Kladney, R.D., et al. 2002. Expression of GP73, a resident Golgi membrane protein, in viral and nonviral liver disease. Hepatology 35: 1431-1440.
- Kladney, R.D., et al. 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/
- Iftikhar, R., et al. 2004. Disease- and cell-specific expression of GP73 in human liver disease. Am. J. Gastroenterol. 99: 1087-1095.
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- 7. Block, T.M., et al. 2005. Use of targeted glycoproteomics to identify serum glycoproteins that correlate with liver cancer in woodchucks and humans. Proc. Natl. Acad. Sci. USA 102: 779-784.
- 8. Marrero, J.A., et al. 2005. GP73, a resident Golgi glycoprotein, is a novel serum marker for hepatocellular carcinoma. J. Hepatol. 43: 1007-1012.

CHROMOSOMAL LOCATION

Genetic locus: Golm1 (mouse) mapping to 13 B2.

SOURCE

GP73 (G-2) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 365-392 at the C-terminus of GP73 of mouse origin.

PRODUCT

Each vial contains 200 $\mu g \ lg G_3$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-398230 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

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

APPLICATIONS

GP73 (G-2) is recommended for detection of GP73 of mouse origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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)

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

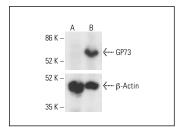
Molecular Weight of GP73: 73 kDa.

Positive Controls: GP73 (m): 293T Lysate: sc-120573 or chemically-treated A549 whole cell lysate.

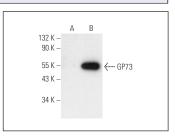
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz* Blocking Reagent: sc-516214 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 m-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz* Mounting Medium: sc-24941 or UltraCruz* Hard-set Mounting Medium: sc-359850.

DATA







GP73 (G-2): sc-398230. Western blot analysis of GP73 expression in non-transfected: sc-117752 (A) and mouse GP73 transfected: sc-120573 (B) 293T whole cell lysates.

RESEARCH USE

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



See **GP73 (E-7): sc-393935** for GP73 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.