

p8 (FL-82): sc-30184

BACKGROUND

The human p8 (candidate of metastasis 1) gene maps to chromosome 16p11.2 and encodes a transcription factor that regulates pancreatic growth. p8 upregulates the glucagon gene promoter by recruiting the p300 cofactor to increase Pax2A and Pax2B activity and by binding the Pax2-interacting protein PTIP to suppress its inhibition. p8 is present at high levels in pancreatic acinar cells during the acute phase of pancreatitis in developing pancreas and during pancreatic regeneration. Acinar cells upregulate p8 mRNA in response to cellular pancreatitis-induced injury. *In vitro* studies suggest that p8 mRNA is induced in pancreatic and non-pancreatic cells in response to apoptotic stimuli.

REFERENCES

- Mallo, G.V., Fiedler, F., Calvo, E.L., Ortiz, E.M., Vasseur, S., Keim, V., Morisset, J. and Iovanna, J.L. 1997. Cloning and expression of the rat p8 cDNA, a new gene activated in pancreas during the acute phase of pancreatitis, pancreatic development and regeneration, and which promotes cellular growth. *J. Biol. Chem.* 272: 32360-32369.
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- Vasseur, S., Vidal Mallo, G., Fiedler, F., Bodeker, H., Canepa, E., Moreno, S. and Iovanna, J.L. 1999. Cloning and expression of the human p8, a nuclear protein with mitogenic activity. *Eur. J. Biochem.* 259: 670-675.
- Hoffmeister, A., Ropolo, A., Vasseur, S., Mallo, G.V., Bodeker, H., Ritz-Laser, B., Dressler, G.R., Vaccaro, M.I., Dagorn, J.C., Moreno, S. and Iovanna, J.L. 2002. The HMG-I/Y-related protein p8 binds to p300 and Pax2 trans-activation domain-interacting protein to regulate the *trans*-activation activity of the Pax2A and Pax2B transcription factors on the glucagon gene promoter. *J. Biol. Chem.* 277: 22314-22319.
- LocusLink Report (LocusID: 26471). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: NUPR1 (human) mapping to 16p11.2; Nupr1 (mouse) mapping to 7 F3.

SOURCE

p8 (FL-82) is a rabbit polyclonal antibody raised against amino acids 1-82 representing full length p8 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

p8 (FL-82) is recommended for detection of p8 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).

p8 (FL-82) is also recommended for detection of p8 in additional species, including canine.

Suitable for use as control antibody for p8 siRNA (h): sc-40792, p8 siRNA (m): sc-40793, p8 shRNA Plasmid (h): sc-40792-SH, p8 shRNA Plasmid (m): sc-40793-SH, p8 shRNA (h) Lentiviral Particles: sc-40792-V and p8 shRNA (m) Lentiviral Particles: sc-40793-V.

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.

SELECT PRODUCT CITATIONS

- Davies, M.L., et al. 2010. The transcript expression and protein distribution pattern in human colorectal carcinoma reveal a pivotal role of COM-1/p8 as a tumour suppressor. *Cancer Genomics Proteomics* 7: 75-80.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.