

Proliferin (M-109): sc-135167

BACKGROUND

Various hormones are secreted from the anterior pituitary during development and growth, including prolactin, luteinizing hormone (LH), Proliferin (Mrp1 or Plf1), thyroid-stimulating hormone (TSH) and follicle-stimulating hormone (FSH). Proliferin, which also is designated mitogen-regulated protein 1, is an important secreted protein that plays a role in embryonic development. During fetal development at mid-gestation, Proliferin provides a growth signal to target cells in fetal and maternal tissues. It is a secreted protein that belongs to the somatotropin/Prolactin growth hormone family of proteins.

REFERENCES

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2. Linzer, D.I. and Mordacq, J.C. 1987. Transcriptional regulation of Proliferin gene expression in response to serum in transfected mouse cells. EMBO J. 6: 2281-2288.
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4. Dostert, A. and Heinzl, T. 2004. Negative glucocorticoid receptor response elements and their role in glucocorticoid action. Curr. Pharm. Des. 10: 2807-2816.
5. Xie, J., Baumann, M.J. and McCabe, L.R. 2004. Osteoblasts respond to hydroxyapatite surfaces with immediate changes in gene expression. J. Biomed. Mater. Res. A 71: 108-117.
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SOURCE

Proliferin (M-109) is a rabbit polyclonal antibody raised against amino acids 31-139 mapping near the N-terminus of Proliferin of mouse 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.

PROTOCOLS

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

APPLICATIONS

Proliferin (M-109) is recommended for detection of Proliferin-1-3 of mouse 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).

Molecular Weight of Proliferin: 28 kDa.

Positive Controls: mouse placenta tissue extract.

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.

RESEARCH USE

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



Try **Proliferin (E-10): sc-271891**, our highly recommended monoclonal alternative to Proliferin (M-109).