

Prolactin (PRL-149L II): sc-69874

BACKGROUND

The anterior pituitary secretes a variety of hormones that are involved in cell growth, differentiation and development. Prolactin, a 226 amino acid protein, plays a role in multiple processes, including cell growth, reproduction and immune function. Full length Prolactin, as well as an alternative splice product lacking the third exon, are secreted by endothelial cells involved in angiogenesis. In addition to its role in mammary development and lactation, Prolactin is known to play a role in the development of mammary cancer, acting as both a mitogen and a differentiating agent. Prolactin has also been shown to enhance the proliferation of B cell hybridomas, leading to an overall increase in antibody production. In addition, Prolactin has been demonstrated to reverse the antiproliferative effects of the immunosuppressive cytokine TGF β . Prolactin is also associated with a variety of autoimmune diseases, including arthritis and type 1 diabetes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRL (human) mapping to 6p22.3.

SOURCE

Prolactin (PRL-149L II) is a mouse monoclonal antibody raised against Prolactin of human origin.

PRODUCT

Each vial contains 200 μ g IgG $_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Prolactin (PRL-149L II) is recommended for detection of Prolactin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for Prolactin siRNA (h): sc-37214, Prolactin shRNA Plasmid (h): sc-37214-SH and Prolactin shRNA (h) Lentiviral Particles: sc-37214-V.

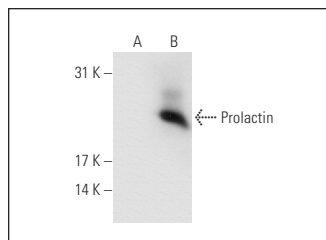
Molecular Weight of Prolactin: 27 kDa.

Positive Controls: Prolactin (h): 293T Lysate: sc-170124 or human pituitary tissue extract.

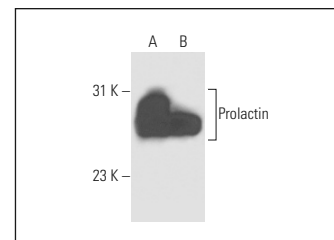
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG 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).

DATA



Prolactin (PRL-149L II): sc-69874. Western blot analysis of Prolactin expression in non-transfected: sc-117752 (A) and human Prolactin transfected: sc-170124 (B) 293T whole cell lysates.



Prolactin (PRL-149L II): sc-69874. Western blot analysis of Prolactin expression in human pituitary tissue extract (A) and human recombinant Prolactin (B).

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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