SANTA CRUZ BIOTECHNOLOGY, INC.

PIBF (H-300): sc-99129

BACKGROUND

PIBF (progesterone-induced blocking factor 1) is synthesized during pregnancy in response to progesterone by progesterone receptor-positive T lymphocytes (mostly γ-δ T cells). In the presence of PIBF, natural killer (NK) cells inhibit the release of perforin from storage granules and therefore fail to lyse target cells. In humans, the amount of cells that express PIBF is significantly higher in healthy pregnant women than in women at risk for premature pregnancy termination. Full-length PIBF is associated with the nucleus, whereas secretion of shorter forms is induced by activation of the cell. Research suggests that PIBF functions as a transcription factor in its full-length form, while smaller forms may act as cytokines. The PIBF gene encodes a deduced hydrophilic 757-amino acid α-helical protein with an N-terminal signal sequence, a leucine zipper motif, a basic zipper sequence, a PEST sequence, a nuclear localization signal, an endoplasmic reticulum membrane retention signal and many presumeed N-glycosylation and phosphorylation sites.

CHROMOSOMAL LOCATION

Genetic locus: PIBF1 (human) mapping to 13q22.1; Pibf1 (mouse) mapping to 14 E2.2.

SOURCE

PIBF (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of PIBF 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

PIBF (H-300) is recommended for detection of PIBF 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).

PIBF (H-300) is also recommended for detection of PIBF in additional species, including canine and bovine.

Suitable for use as control antibody for PIBF siRNA (h): sc-61347, PIBF siRNA (m): sc-61348, PIBF shRNA Plasmid (h): sc-61347-SH, PIBF shRNA Plasmid (m): sc-61348-SH, PIBF shRNA (h) Lentiviral Particles: sc-61347-V and PIBF shRNA (m) Lentiviral Particles: sc-61348-V.

Molecular Weight of full-length PIBF: 89 kDa.

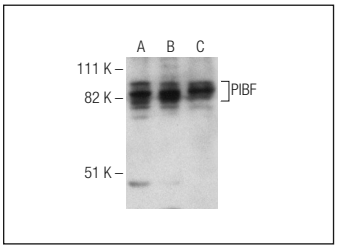
Molecular Weight of PIBF bioactive form: 48 kDa.

Positive Controls: PIBF (h): 293T Lysate: sc-116389, MDA-MB-231 cell lysate: sc-2232 or ZR-75-1 cell lysate: sc-2241.

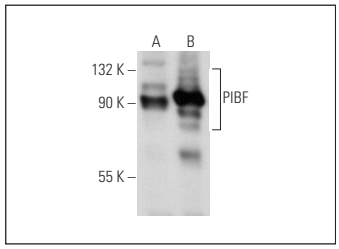
RECOMMENDED SECONDARY REAGENTS

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



PIBF (H-300): sc-99129. Western blot analysis of PIBF expression in MDA-MB-231 (**A**), ZR-75-1 (**B**) and 3T3-L1 (**C**) whole cell lysates.



PIBF (H-300): sc-99129. Western blot analysis of PIBF expression in non-transfected: sc-117752 (**A**) and human PIBF transfected: sc-116389 (**B**) 293T whole cell lysates.

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.

MONOS Satisfaction Guaranteed

Try **PIBF (A-2): sc-376840** or **PIBF (G-10): sc-271504**, our highly recommended monoclonal alternatives to PIBF (H-300).