Human PIBF1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5559

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PIBF1 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human PIBF1 Glu19-Ala419 Accession # Q8WXW3
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

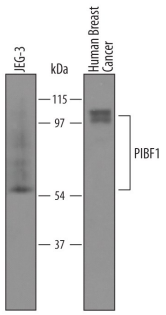
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

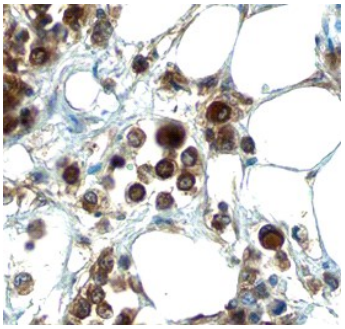
DATA

Western Blot



Detection of Human PIBF1 by Western Blot. Western blot shows lysates of JEG-3 human epithelial choriocarcinoma cell line and human breast cancer tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human PIBF1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5559) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). Specific bands were detected for PIBF1 at approximately 98 kDa and 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



PIBF1 in Human Breast Cancer Tissue. PIBF1 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Sheep Anti-Human PIBF1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5559) at 3 µg/mL overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PIBF-1 (Progesterone induced blocking factor 1) is a 90-92 kDa progesterone-inducible molecule initially isolated from the lymphocytes of pregnant women. It is produced by lymphocytes plus villous trophoblast cells, and modulates the activity of cytotoxic NK cells. Human PIBF-1 is 757 amino acids (aa) in length. It contains a possible signal sequence (aa 1-26), two Leu-zippers (aa 311-323 and 643-664), two NLSs (aa 282-285 and 567-573), a bZIP sequence (aa 574-614), and an ER retention motif (aa 752-757). PIBF-1 is found in the nucleus, cytoplasm, and circulation, the result of multiple splice variants. SDS-page shows 90 kDa, 80-83 kDa, 48-52 kDa, 34-35 kDa, and 10-12 kDa isoforms. The 90 kDa form is nuclear and full-length, while the 34-35 kDa form is secreted and likely represents aa 1-223 spliced to aa 683-757. There is a 50-55 kDa form that is apparently intracellular, possibly bioactive and likely represents the N-terminus of the molecule. Over aa 19-419, human PIBF-1 shares 88% aa identity with mouse PIBF-1.

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