

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PIBF1 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PIBF1 Glu19-Ala419 Accession # Q8WXW3
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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