

**PIBF1 Antibody**  
**Catalog # ASC11618****Specification**

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**PIBF1 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q8WXW3</a>
Other Accession	<a href="#">NP_006337</a> , <a href="#">5576958</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	83 kDa KDa
Application Notes	PIBF1 antibody can be used for detection of PIBF1 by Western blot at 1 - 2 µg/mL.

**PIBF1 Antibody - Additional Information**Gene ID **10464****Target/Specificity**

PIBF1; Multiple isoforms of PIBF1 exists as a result of alternative splicing event.

**Reconstitution & Storage**

PIBF1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

PIBF1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**PIBF1 Antibody - Protein Information****Name** PIBF1**Synonyms** C13orf24, PIBF**Function**

Plays a role in ciliogenesis.

**Cellular Location**

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm. Secreted  
Note=In progesterone-treated astrocytoma cells a 57 kDa protein and isoform 1 (90 kDa) have been described, both being located in the intracellular medium and secreted. Respective predominant forms are isoform 1 in the intracellular and the 57 kDa protein in the extracellular medium (PubMed:25218441). [Isoform 4]: Secreted Note=Secreted by progesterone-treated lymphocytes (PubMed:14634107)

**Tissue Location**

Expressed at highest levels in testis. Moderate expression is detected in spleen, thymus, prostate, ovary, small intestine, and colon (PubMed:11935316). Expressed in the first trimester pregnancy

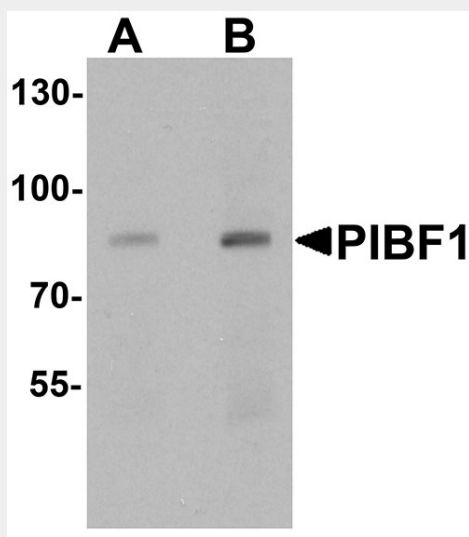
decidua (PubMed:12516630). Localized to extravillous cytotrophoblast (at protein level). Also found in syncytiotrophoblast and part of the villous cytotrophoblast. Isoform 1 is expressed in first trimester and term villous trophoblast; trophoblast cells can additionally express other isoforms (PubMed:18817979). Overexpressed in solid tumors from stomach and uterus and in cells from ovary, cervical, breast, lymphoma and leukemia cancer (PubMed:25218441).

### PIBF1 Antibody - Protocols

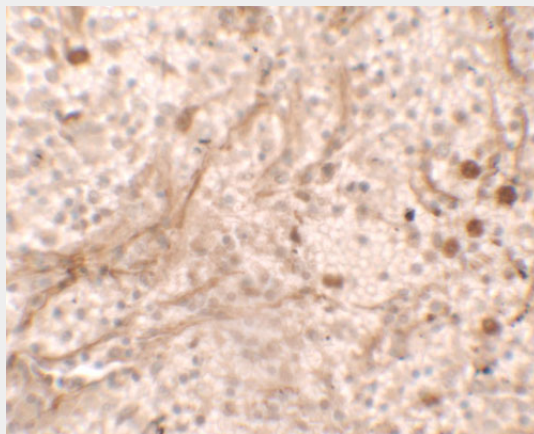
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

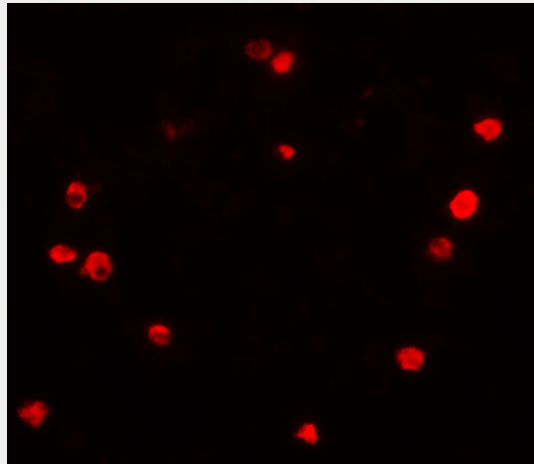
### PIBF1 Antibody - Images



Western blot analysis of PIBF1 in human placenta tissue lysate with PIBF1 antibody at (A) 1 and (B) 2 µg/mL



Immunohistochemistry of PIBF in spleen tissue with PIBF antibody at 5 µg/ml.



Immunofluorescence of PIBF in human spleen tissue with PIBF antibody at 20 µg/ml.

### **PIBF1 Antibody - Background**

**PIBF1 Antibody:** PIBF1 is synthesized during pregnancy in response to progesterone by T lymphocytes. PIBF1 inhibits arachidonic acid release, controls NK activity, and modifies the cytokine balance exerting an anti-abortion effect. It contains a leucine zipper motif, a basic zipper sequence, a PEST sequence, a nuclear localization signal, an ER membrane retention signal and N-glycosylation and phosphorylation sites. PIBF1 is significantly higher in healthy pregnant women than in women at risk for premature pregnancy termination. Full-length PIBF1 is associated with the nucleus and functions as a transcription factor, whereas secretion of shorter forms which may act as cytokines is induced by activation of the cell.

### **PIBF1 Antibody - References**

Laskarin G, Tokmadzic VS, Strbo N, et al. Progesterone induced blocking factor (PIBF) mediates progesterone induced suppression of decidual lymphocyte cytotoxicity. *Am. J. Reprod. Immunol.* 2002; 48:201-9.

Lachmann M, Gelbmann D, Kalman E, et al. PIBF (progesterone induced blocking factor) is overexpressed in highly proliferating cells and associated with the centrosome. *Int. J. Cancer.* 2004; 112:51-60

Polgar B, Kispal G, Lachmann M, et al. Molecular cloning and immunologic characterization of a novel cDNA coding for progesterone-induced blocking factor. *J. Immunol.* 2003; 171:5956-63.

Raghupathy R, Al-Mutawa E, Al-Azemi M, et al. Progesterone-induced blocking factor (PIBF) modulates cytokine production by lymphocytes from women with recurrent miscarriage or preterm delivery. *J. Reprod. Immunol.* 2009; 80:91-9.