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PIBF1 Antibody
Catalog # ASC11618

Specification

PIBF1 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q8WXW3
Other Accession	NP_006337, 5576958
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℃ for three months and -20℃, 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

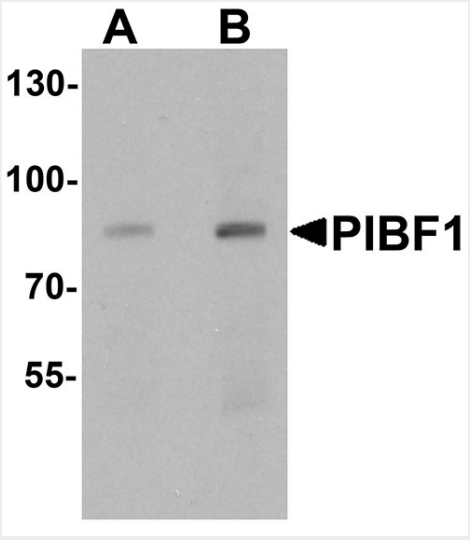
decidua (PubMed:12516630). Localized to extravillous cytotrophoblast (at protein level). Also found in syncytiotrophoblast and part of the villous cytotrophoblast. Isoform 1 is expressed in first trimester and term villous trophoblast; trophoblast cells can additionally express other isoforms (PubMed:18817979).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

PIBF1 Antibody - Protocols

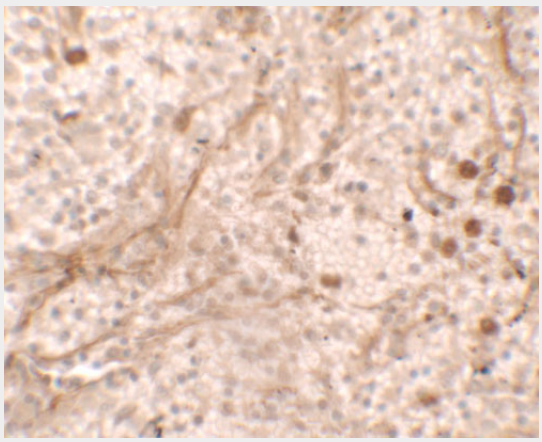
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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



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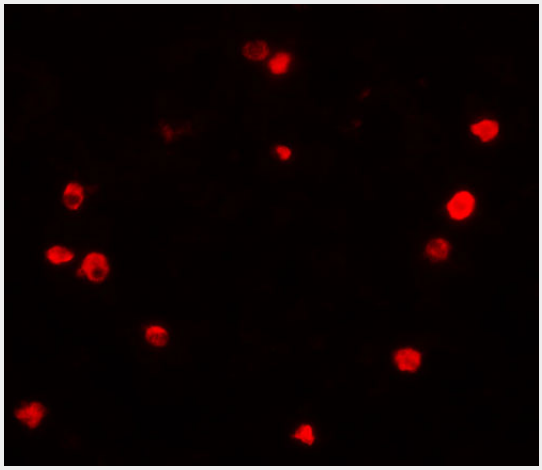
Immunohistochemistry of PBIF in spleen tissue with PBIF antibody at 5 µg/ml.



Immunofluorescence of PBIF in human spleen tissue with PBIF 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-abortive 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.