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PIBF1 Antibody

Catalog # ASC11618

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8WXW3
Other Accession	NP_006337, 5576958
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	89805
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	PIBF1 antibody can be used for detection of PIBF1 by Western blot at 1 - 2 g/mL.

Additional Information

Gene ID	10464
Other Names	Progesterone-induced-blocking factor 1, PIBF1, C13orf24, PIBF
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.

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).

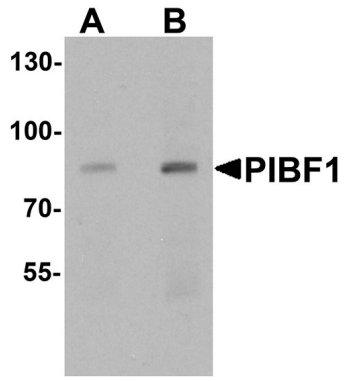
Background

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.

References

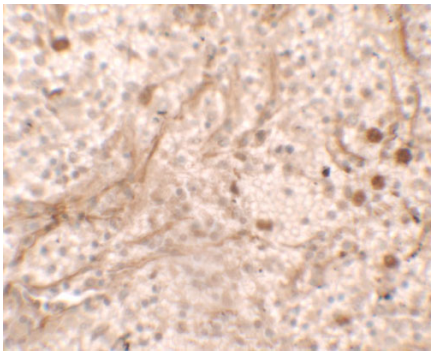
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Lachmann M, Gelbmann D, Kalman E, et al. PIBF (progesterone induced blocking factor) is overexpressed in highly proliferating cells and associated with the centrosome. Int. J. Cancer. 2004; 112:51-60
Polgar B, Kispal G, Lachmann M, et al. Molecular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

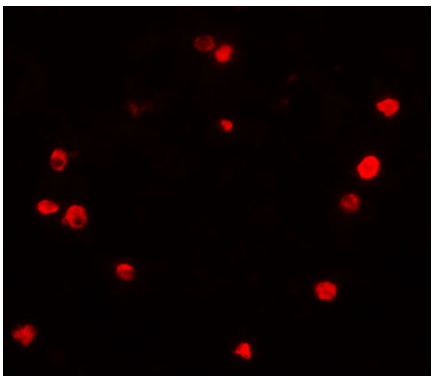
Images



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

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.