

PMFBP1 Rabbit pAb

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Catalog # AP54812

Product Information

Application	WB
Primary Accession	Q8TBY8
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	117494
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from Human PMFBP1
Epitope Specificity	201-330/1022
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PMF-1 is a 205 amino acid protein involved in kinetochore formation. Localized to the nucleus, PMF-1 contains a coiled-coil domain which interacts with the leucine-zipper domain of Nrf2. This interaction regulates the transcription of SSAT, a regulatory enzyme for polyamine catabolism. PMF-1 is also a component of the MIS12 complex, which is required for kinetochore formation and chromosomal alignment and segregation. PMF-1 is expressed at highest levels in skeletal muscle and heart, with moderate expression in liver and kidney. PMFBP1 (Polyamine-modulated factor 1-binding protein 1) is a 1022 amino acid protein that binds PMF-1 and may be involved in general organization of the cytoskeleton. Due to evidence that PMFBP1 may play a role in sperm tail morphology, it may therefore affect fertility. There are three isoforms of PMFBP1 that are produced as a result of alternative splicing events.

Additional Information

Gene ID	83449
Other Names	Polyamine-modulated factor 1-binding protein 1, PMF-1-binding protein, PMFBP1
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

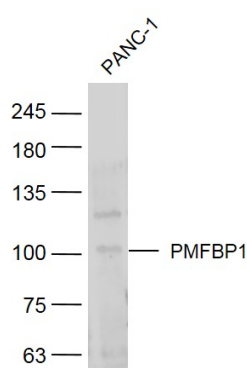
Protein Information

Name	PMFBP1
Function	Required for normal spermatogenesis (PubMed: 1770140 , PubMed: 30032984 , PubMed: 30298696). It functions as a scaffold protein that attaches the sperm head-tail connecting piece to the nuclear envelope, thus maintaining sperm head and tail integrity (PubMed: 30032984). May also be involved in the general organization of cellular cytoskeleton (By similarity).
Cellular Location	Cell projection, cilium, flagellum Note=Localized at the sperm head-tail connecting piece (PubMed:30032984, PubMed:30298696). During spermatogenesis, it is first observed in the cytoplasm of round spermatids, it later appears in the implantation fossa region of the sperm nucleus during sperm head elongation and differentiation, and finally it localizes to the head-tail connecting piece (By similarity). {ECO:0000250 UniProtKB:Q9WVQ0, ECO:0000269 PubMed:30032984, ECO:0000269 PubMed:30298696}

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Images



Sample:
PANC-1(Human) Cell Lysate at 40 ug
Primary: Anti-PMFBP1 (AP54812) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 119 kD
Observed band size:119kD

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