

BBOF1 Polyclonal antibody

Catalog Number: 24337-1-AP

Basic Information

Catalog Number: 24337-1-AP	GenBank Accession Number: BC104981	Purification Method: Antigen affinity purification
Size: 850 µg/ml	GeneID (NCBI): 80127	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8ND07	
Isotype: IgG	Full Name: chromosome 14 open reading frame 45	
Immunogen Catalog Number: AG19302	Calculated MW: 529 aa, 62 kDa	
	Observed MW: 62 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse testis tissue, TT cells, rat testis tissue

IHC: mouse testis tissue,

Background Information

Basal body orientation factor 1 (BBOF1), also known as CCDC176, contains two coiled-coil domains and is evolutionarily conserved in vertebrates. Recently, *Xenopus* bbof1 has been characterized as a cilia-associated factor that is induced by the transcription factor foxj1 to mediate the alignment and orientation of cilia in epidermal multi-ciliated cells. BBOF1 is required for sperm flagellar axoneme maintenance and male fertility in mice. BBOF1 expression is elevated during meiosis, and it is accumulated in round spermatids. BBOF1 deletion has compromised effects on growth, survival, and spermatogenesis.

Storage

Storage:

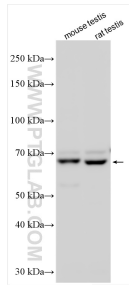
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

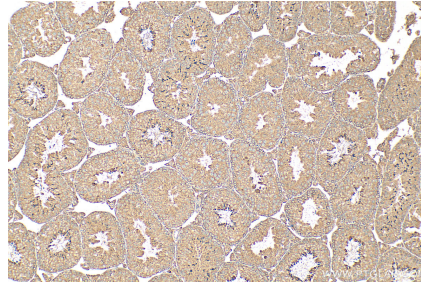
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

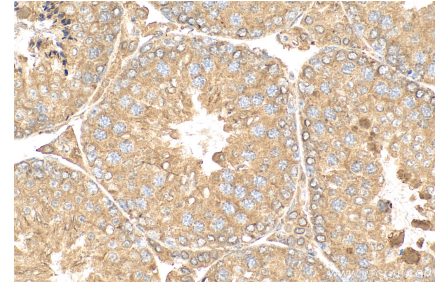
Selected Validation Data



mouse testis tissue were subjected to SDS PAGE followed by western blot with 24337-1-AP (BBOF1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 24337-1-AP (BBOF1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 24337-1-AP (BBOF1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).