

For Research Use Only

ACRV1 Polyclonal antibody

Catalog Number: 14040-1-AP

11 Publications



Basic Information

Catalog Number: 14040-1-AP	GenBank Accession Number: BC014588	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop;	GeneID (NCBI): 56	Recommended Dilutions: WB 1:1000-1:8000 IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB
Source: Rabbit	Full Name: acrosomal vesicle protein 1	IHC 1:50-1:500 IF 1:20-1:200
Isotype: IgG	Calculated MW: 28 kDa	
Immunogen Catalog Number: AG5109	Observed MW: 13-36 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB : DU 145 cells, LNCaP cells, PC-3 cells
Cited Applications: IF, IHC	IP : DU 145 cells,
Species Specificity: human	IHC : human testis tissue,
Cited Species: rat, mouse	IF : PC-3 cells,

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

Background Information

The protein ACRV1, also known as SP-10, is an acrosomal matrix protein, which is evolutionarily conserved among mammals. It is associated with the matrix of the acrosomal vesicle in developing spermatids and the acrosomal matrix and membranes of ejaculated sperm (PMID: 8288254). Human ACRV1 protein has 11 isoforms, and molecular weight ranges from 9 to 28 kDa. ACRV1 was predominantly located in round and elongated spermatids in the testis, indicating that ACRV1 may play an important role in mammalian spermatogenesis and may be a target of a contraceptive vaccine (PMID: 21488928; 8874713).

Notable Publications

Author	Pubmed ID	Journal	Application
Ran Yang	36214638	Bioinformatics	IF
Vitória Frias Batista	35086406	Syst Biol Reprod Med	IF
Deqiang Ding	29317670	Nat Commun	IF

Storage

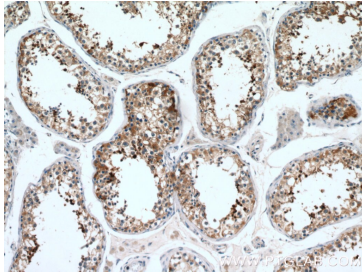
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

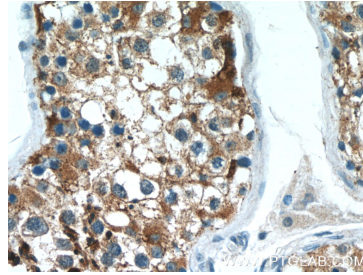
For technical support and original validation data for this product please contact:
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E: proteintech@ptglab.com
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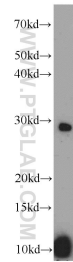
Selected Validation Data



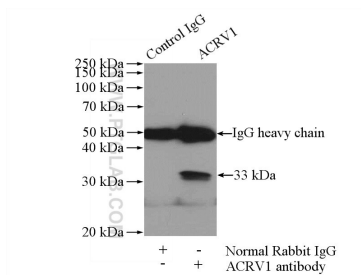
Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 14040-1-AP (ACRV1 antibody) at dilution of 1:200 (under 10x lens).



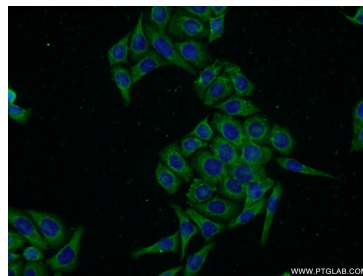
Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 14040-1-AP (ACRV1 antibody) at dilution of 1:200 (under 40x lens).



DU 145 cells were subjected to SDS PAGE followed by western blot with 14040-1-AP (ACRV1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP Result of anti-ACRV1 (IP:14040-1-AP, 3ug; Detection:14040-1-AP 1:2000) with DU 145 cells lysate 560ug.



Immunofluorescent analysis of PC-3 cells using 14040-1-AP (ACRV1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).