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ACR Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9079b

Product Information

Application	WB, IHC-P, E
Primary Accession	P10323
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16798
Calculated MW	45847
Antigen Region	387-416

Additional Information

Gene ID	49
Other Names	Acrosin, Acrosin light chain, Acrosin heavy chain, ACR, ACRS
Target/Specificity	This ACR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 387-416 amino acids from the C-terminal region of human ACR.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ACR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ACR
Synonyms	ACRS
Function	Acrosin is the major protease of mammalian spermatozoa. It is a serine protease of trypsin-like cleavage specificity, it is synthesized in a zymogen form, proacrosin and stored in the acrosome.

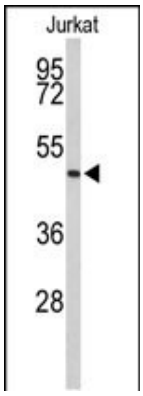
Background

ACR is the major proteinase present in the acrosome of mature spermatozoa. It is a typical serine proteinase with trypsin-like specificity. It is stored in the acrosome in its precursor form, proacrosin. The active enzyme functions in the lysis of the zona pellucida, thus facilitating penetration of the sperm through the innermost glycoprotein layers of the ovum. The mRNA for proacrosin is synthesized only in the postmeiotic stages of spermatogenesis. In humans proacrosin first appears in the haploid spermatids.

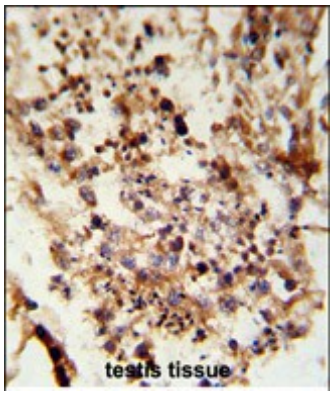
References

Dube,C., et.al., J. Androl. 26 (4), 519-528 (2005)
Furlong,L.I., et.al., Fertil. Steril. 83 (6), 1791-1796 (2005)

Images



Western blot analysis of ACR Antibody (C-term) (Cat. #AP9079b) in Jurkat cell line lysates (35ug/lane). ACR (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human testis tissue reacted with ACR Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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