

# ACR Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9079b

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">P10323</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB16798
<b>Calculated MW</b>	45847
<b>Antigen Region</b>	387-416

## Additional Information

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<b>Gene ID</b>	49
<b>Other Names</b>	Acrosin, Acrosin light chain, Acrosin heavy chain, ACR, ACRS
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	ACR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ACR
<b>Synonyms</b>	ACRS
<b>Function</b>	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

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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.

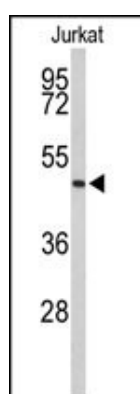
## References

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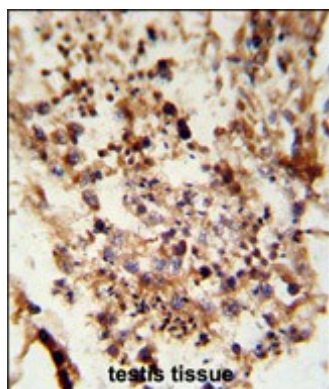
Dube,C., et.al., J. Androl. 26 (4), 519-528 (2005)  
Furlong,L.I., et.al., Fertil. Steril. 83 (6), 1791-1796 (2005)

## Images

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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'.