

**ACR Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9079c****Specification**

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**ACR Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [P10323](#)

**ACR Antibody (Center) Blocking Peptide - Additional Information**

**Gene ID** 49

**Other Names**

Acrosin, Acrosin light chain, Acrosin heavy chain, ACR, ACRS

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP9079c](/products/AP9079c) was selected from the Center region of human ACR. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ACR Antibody (Center) Blocking Peptide - 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.

**ACR Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**ACR Antibody (Center) Blocking Peptide - Images****ACR Antibody (Center) Blocking Peptide - 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.

**ACR Antibody (Center) Blocking Peptide - References**

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