

## Monoclonal Antibody to ACRV1 - FITC

<b>Alternate names:</b>	Acrosomal protein SP-10, Acrosomal vesicle protein 1, Intra-acrosomal Sperm Protein, SP10, SPACA2
<b>Catalog No.:</b>	AM03029FC-N
<b>Quantity:</b>	50 Tests
<b>Background:</b>	One of the most frequent causes of man infertility is defective sperm acrosome. This damage can be detected using antibodies against intra-acrosomal proteins. Besides diagnostics of sperm pathology, monoclonal antibodies against intra-acrosomal proteins can be used for evaluation of the physiological state of sperm cells as well as for selection of a suitable method of fertilization in the laboratories of assisted reproduction.
<b>Uniprot ID:</b>	<a href="#">P26436</a>
<b>NCBI:</b>	<a href="#">NP_001603</a>
<b>GeneID:</b>	<a href="#">56</a>
<b>Host / Isotype:</b>	Mouse / IgM
<b>Clone:</b>	Hs-14
<b>Immunogen:</b>	Freshly ejaculated Human sperms were washed in PBS and extracted in 3% Acetic Acid, 10% Glycerol, 30mM benzamidine. The acid extract was dialyzed against 0.2% Acetic Acid and subsequently used for immunization.
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> Tris buffered saline (TBS) containing 15 mM Sodium Azide as preservative and 0.2% (w/v) high-grade BSA (protease free) as stabilizer. <b>Label:</b> FITC – Fluorescein isothiocyanate
<b>Applications:</b>	Suitable for Flow Cytometry analysis of sperm cells using 20 µl reagent / 100 µl cell suspension. The content of a vial (1 ml) is sufficient for 50 tests. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	The antibody Hs-14 reacts with a 220 kDa testis-specific human intra-acrosomal protein associated with the membranes of the acrosomal vesicle. <b>Species:</b> Human and Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody in the dark at 2-8°C. <b>DO NOT FREEZE!</b> Avoid prolonged exposure to light. Shelf life: One year from despatch.

- General Readings:**
1. Peknicova J, Kyselova V, Buckiova D, Boubelik M.: Effect of an endocrine disruptor on mammalian fertility. Application of monoclonal antibodies against sperm proteins as markers for testing sperm damage. *Am J Reprod Immunol.* 2002 May;47(5):311-8.
  2. Pavlasek J, Peknicova J, Ulcova-Gallova Z, Novakova P, Reischig J, Micanova Z, Rokyta Z.: Significance of determination of intra-acrosomal proteins and sperm antibodies in human reproduction. *Ceska Gynekol.* 2004 Jul;69(4):306-11.
  3. Tepla O. et al. In: *In vitro Fertilization & Human Reproductive Genetics*, ed. Monduzzi, Bologna, 107, (1999).
  4. Chladek D, Peknicova J, Capkova J, Geussova G, Tepla O, Madar J.: Use of human sperm protein monoclonal antibodies in the diagnosis of sperm pathology and selection of a suitable assisted reproduction method for fertilization. *Ceska Gynekol.* 2000 Jan;65(1):28-32. Czech.
  5. Peknicova J, Chladek D, Hozak P.: Monoclonal antibodies against sperm intra-acrosomal antigens as markers for male infertility diagnostics and estimation of spermatogenesis. *Am J Reprod Immunol.* 2005 Jan;53(1):42-9.

- Pictures:**
- Figure 1.** Immunofluorescence analysis of 220 kDa intra-acrosomal protein in Acetone-permeabilized Human sperms using monoclonal antibody AM03029 Clone Hs-14 (normal spermiogram).

