

Datasheet

ACRV1 monoclonal antibody, clone Hs-14 (FITC)

Catalog Number: MAB4490

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native ACRV1.

Clone Name: Hs-14

Immunogen: Native purified human ACRV1.

Host: Mouse

Theoretical MW (kDa): 220

Reactivity: Human, Mouse

Applications: Flow Cyt, ICC, WB
(See our web site product page for detailed applications information)

Protocols: See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Specificity: This antibody reacts with a 220 KDa testis-specific human intra-acrosomal protein associated with the membranes of the acrosomal vesicle.

Form: Liquid

Conjugation: FITC

Isotype: IgM

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10⁶ cells in a suspension)

The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.2% BSA, 0.09% sodium azide)

Storage Instruction: Store in the dark at 4°C. Do not freeze.

Avoid prolonged exposure to light.

Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 56

Gene Symbol: ACRV1

Gene Alias: D11S4365, SP-10, SPACA2

Gene Summary: This gene encodes a testis-specific, differentiation antigen, acrosomal vesicle protein 1, that arises within the acrosomal vesicle during spermatogenesis, and is associated with the acrosomal membranes and matrix of mature sperm. This gene consists of 4 exons and its alternative splicing generates multiple distinct transcripts, which encode protein isoforms ranging from 81 to 265 amino acids. The longest transcript is the most abundant, comprising 53-72% of the total acrosomal vesicle protein 1 messages; the second largest transcript comprises 15-32%; the third and the fourth largest transcripts account for 3.4-8.3% and 8.7-12.5%, respectively; and the remaining transcripts combined account for < 1% of the total acrosomal vesicle protein 1 message. It is suggested that phenomena of cryptic splicing and exon skipping occur within this gene. The acrosomal vesicle protein 1 may be involved in sperm-zona binding or penetration, and it is a potential contraceptive vaccine immunogen for humans. [provided by RefSeq]

References:

1. Monoclonal antibodies against sperm intra-acrosomal antigens as markers for male infertility diagnostics and estimation of spermatogenesis. Peknicova J, Chladek D, Hozak P. Am J Reprod Immunol. 2005 Jan;53(1):42-9.
2. [Significance of determination of intra-acrosomal proteins and sperm antibodies in human reproduction] Pavlasek J, Peknicova J, Ulcova-Gallova Z, Novakova P, Reischig J, Micanova Z, Rokyta Z. Ceska Gynekol. 2004 Jul;69(4):306-11.
3. [Use of human sperm protein monoclonal antibodies in the diagnosis of sperm pathology and selection of a suitable assisted reproduction method for fertilization] Chladek D, Peknicova J, Capkova J, Geussova G, Tepla O, Madar J. Ceska Gynekol. 2000 Jan;65(1):28-32.