

# Mouse Anti-Human Acrosomal Vesicle Protein 1 Monoclonal Antibody

**Cat. No.** CAB11477MH    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b>    | Mouse monoclonal antibody to human acrosomal vesicle protein 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Antigen Description</b> | <p>Acrosomal protein SP-10, also known as Acrosomal vesicle protein 1 and ACRV1, is a testis-specific, differentiation antigen, that arises within the acrosomal vesicle during spermatogenesis, and is associated with the acrosomal membranes and matrix of mature sperm. Regulation of cell type-specific gene transcription is central to cellular differentiation and development. During spermatogenesis, a number of testis-specific genes are expressed in a precise spatiotemporal order. The longest transcript of ACRV1 / SP-10 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 &lt; 1% of the total acrosomal vesicle protein 1 message. acrv1 sp-10 is a testis-specific acrosomal protein that has been detected in several species including humans. it may be involved in sperm-zona binding or penetration, and it is a potential contraceptive vaccine immunogen for humans. acrv1 sp-10 may be involved in sperm-zona binding or penetration. it is also a intra-acrosomal protein that is considered to be</p> |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | a="" vaccine="" candidate="" for="">                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>  | Human ACRV1. No cross-reactivity with human cell lysate ( 293 cell line ) in ELISA.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>    | Recombinant Human ACRV1 Protein                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>      | Mouse IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clone</b>        | 4E3G11                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purification</b> | Protein A affinity chromatography                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b> | Western Blot; ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Dilution</b>     | Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect Human ACRV1 in WB. Using a DAB detection system, the detection limit for Human ACRV1 is approximately 20 ng/lane under non-reducing conditions and reducing conditions. Direct ELISA: This antibody can be used at 0.5 - 1 µg with the appropriate secondary reagents to detect Human ACRV1. The detection limit for Human ACRV1 is approximately 0.0195 ng/well. |
| <b>Preparation</b>  | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human ACRV1. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.                                                                                                                                                                      |
| <b>Format</b>       | 0.2 µm filtered solution in PBS with 5% trehalose                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>      | This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when                                                                                                                                                                                                                                                                                                          |

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stored at -20 °C to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

|                            |                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | ACRV1 acrosomal vesicle protein 1 [ Homo sapiens ]                                                             |
| <b>Official Symbol</b>     | ACRV1                                                                                                          |
| <b>Synonyms</b>            | ACRV1; acrosomal vesicle protein 1; acrosomal protein SP-10; D11S4365; SP 10; SPACA2; sperm protein 10; SP-10; |
| <b>Gene ID</b>             | 56                                                                                                             |
| <b>mRNA Refseq</b>         | NM_001612                                                                                                      |
| <b>Protein Refseq</b>      | NP_001603                                                                                                      |
| <b>MIM</b>                 | 102525                                                                                                         |
| <b>UniProt ID</b>          | P26436                                                                                                         |
| <b>Chromosome Location</b> | 11p12-q13                                                                                                      |

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