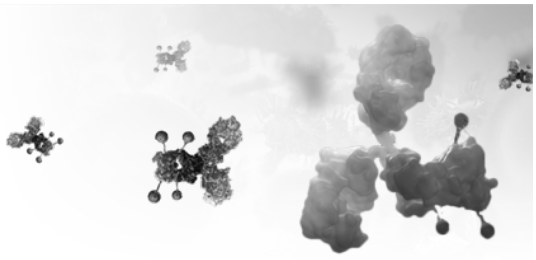

# Mouse Anti-Human ACRV1 monoclonal antibody, clone NN12 (CABT-ZB740)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| **Specificity** | It reacts with Human ACRV1 |
| **Target** | ACRV1 |
| **Immunogen** | Recombinant Human ACRV1 Protein |
| **Isotype** | IgG |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Clone** | NN12 |
| **Purification** | Protein A purified |
| **Conjugate** | Unconjugated |
| **Applications** | ELISA(cap)<br>We recommend the following for sandwich ELISA (Capture - Detection):<br>CABT-ZB740 - CABT-ZB1058<br>This antibody will detect ACRV1 in antibody pair set. [ABPR-ZB320] |
| **Preparation** | 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, recombinant Human ACRV1. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| **Format** | Purified, Liquid |
| **Concentration** | Lot specific |

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| | |
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| **Size** | 50 µL, 100 µL, 200 µL, 1 mL |
| **Buffer** | PBS |
| **Preservative** | None |
| **Storage** | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| **Ship** | Wet ice |

# BACKGROUND

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| **Introduction** | Acrosomal protein SP-1, 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-1 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. ACRV1/SP-1 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-1 may be involved in sperm-zona binding or penetration. It is also a intra-acrosomal protein that is considered to be a vaccine candidate for immunocontraception. |
| **Keywords** | ACRV1; acrosomal vesicle protein 1; SP-10; SPACA2 |

# GENE INFORMATION

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|---|---|
| **Synonyms** | ACRV1; acrosomal vesicle protein 1; SP-10; SPACA2; D11S4365; acrosomal protein SP-10; sperm protein 10 |
| **Entrez Gene ID** | 56 |
| **UniProt ID** | P26436 |

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