# NCAM-1/CD56 Protein, Rat (HEK293, His)

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| **Cat. No.:** | HY-P73749 |
| **Synonyms:** | CD56; MSK39; NCAM-1; Neural cell adhesion molecule 1; NCAM |
| **Species:** | Rat |
| **Source:** | HEK293 |
| **Accession:** | P13596 (L20-T721) |
| **Gene ID:** | 24586 |
| **Molecular Weight:** | 115-130 kDa |

## PROPERTIES

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| **AA Sequence** | L Q V D I V P S Q G E I S V G E S K F F L C Q V A G D A K D K D I S W F S P N G<br>E K L S P N Q Q R I S V V W N D D D S S T L T I Y N A N I D D A G I Y K C V V T<br>A E D G T Q S E A T V N V K I F Q K L M F K N A P T P Q E F K E G E D A V I V C<br>D V V S S L P P T I I W K H K G R D V I L K K D V R F I V L S N N Y L Q I R G I<br>K K T D E G T Y R C E G R I L A R G E I N F K D I Q V I V N V P P T V Q A R Q S<br>I V N A T A N L G Q S V T L V C D A D G F P E P T M S W T K D G E P I E N E E E<br>D D E K H I F S D D S S E L T I R N V D K N D E A E Y V C I A E N K A G E Q D A<br>S I H L K V F A K P K I T Y V E N Q T A M E L E E Q V T L T C E A S G D P I P S<br>I T W R T S T R N I S S E E K A S W T R P E K Q E T L D G H M V V R S H A R V S<br>S L T L K S I Q Y T D A G E Y I C T A S N T I G Q D S Q S M Y L E V Q Y A P K L<br>Q G P V A V Y T W E G N Q V N I T C E V F A Y P S A T I S W F R D G Q L L P S S<br>N Y S N I K I Y N T P S A S Y L E V T P D S E N D F G N Y N C T A V N R I G Q E<br>S L E F I L V Q A D T P S S P S I D R V E P Y S S T A Q V Q F D E P E A T G G V<br>P I L K Y K A E W K S L G E E A W H S K W Y D A K E A N M E G I V T I M G L K P<br>E T R Y A V R L A A L N G K G L G E I S A A T E F K T Q P V R E P S A P K L E G<br>Q M G E D G N S I K V N L I K Q D D G G S P I R H Y L V K Y R A L A S E W K P E<br>I R L P S G S D H V M L K S L D W N A E Y E V Y V V A E N Q Q G K S K A A H F V<br>F R T S A Q P T A I P A N G S P T A G L S T |
| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 0.15M NaCl, pH 8.0 or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |

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| **Shipping** | Room temperature in continental US; may vary elsewhere. |

## DESCRIPTION

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| **Background** | NCAM-1/CD56 Protein, a cell adhesion molecule, plays a pivotal role in various neuronal processes, including neuron-neuron adhesion, neurite fasciculation, and outgrowth of neurites. It interacts with MDK, contributing to the intricate cellular interactions in neural development. Furthermore, NCAM-1 is part of a complex involving SLC39A6, SLC39A10, and NCAM1 itself, which regulates NCAM1 phosphorylation and facilitates its integration into focal adhesion complexes during epithelial-to-mesenchymal transition. This underscores the dynamic involvement of NCAM-1 in cell adhesion and signaling events, emphasizing its importance in both neural development and cellular processes associated with epithelial-to-mesenchymal transition. |

**Caution: Product has not been fully validated for medical applications. For research use only.**

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