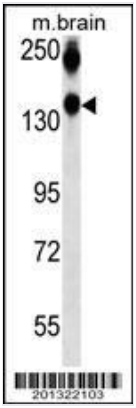
# CD56 Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | CD56, Monoclonal Antibody |
| **Full Product Name** | CD56 (Neural Cell Adhesion Molecule 1, N-CAM-1, NCAM-1, NCAM1, NCAM) (PE) |
| **Product Gene Name** | anti-CD56 antibody |
| **Product Synonym Gene Name** | NCAM1 |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1,k |
| **Clone Number** | 321CT11.4.4 |
| **Host** | Mouse |
| **Species Reactivity** | Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE). |
| **Purity/Purification** | Purified by Protein G Affinity Chromatography |
| **Preparation and Storage** | May be stored at 4 degree C for short-term only. For long-term storage, store. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer. Do not freeze R-Phycoerythrin conjugates. Light sensitive. |
| **Molecular Weight** | 40,760 Da |
| **OMIM** | 116930 |
| **3D Structure** | ModBase 3D Structure for P13591 |
| **Immunogen** | NCAM1 Mab is generated from mouse immunized with NCAM1 recombinant protein. |
| **Conjugate** | PE |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-CD56 antibody** | Antibodies; CD Markers |
| **Applications Tested/Suitable for anti-CD56 antibody** | FLISA, Western Blot (WB) |
| **Application Notes for anti-CD56 antibody** | FLISA: 1:1000<br>WB: 1:100-500<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-CD56 antibody** | This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc. |
| **Product References and Citations for anti-CD56 antibody** | Foley, D.A., et al. J. Biol. Chem. 285(45):35056-35067(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Kleene, R., et al. J. Biol. Chem. 285(37):28968-28979(2010) Bojarska-Junak, A., et al. Oncol. Rep. 24(3):803-810(2010) Gomyo, H., et al. Hematology 15(3):157-161(2010) |
| **Other Notes** | Small volumes of anti-CD56 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CD56 purchase** | MBS6121648 is an antibody targeting CD56. Also known as CD56 (Neural Cell Adhesion Molecule 1, N-CAM-1, NCAM-1, NCAM1, NCAM) (PE). Reactive in Mouse. Host: Mouse. |




**Western Blot (WB) of anti-CD56 antibody**
NCAM1 Antibody western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the NCAM1 antibody detected the NCAM1 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD56. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 94420689 |
| **NCBI GeneID** | 4684 |
| **NCBI Accession #** | NP_000606.3 |
| **NCBI Related Accession #** | NP_001070150.1 |
| **UniProt Primary Accession #** | P13591 |
| **UniProt Secondary Accession #** | P13592; P13593; Q05C58; Q15829; Q16180; Q16209; Q59FL7; Q86X47; Q96CJ3; A8K8T8 |
| **UniProt Related Accession #** | P13591 |
| **GenBank Nucleotide #** | NM_000615.6 |
| **NCBI Official Full Name** | neural cell adhesion molecule 1 isoform 1 |
| **NCBI Official Synonym Full Names** | neural cell adhesion molecule 1 |
| **NCBI Official Symbol** | NCAM1 |
| **NCBI Official Synonym Symbols** | CD56; NCAM; MSK39 |
| **UniProt Protein Name** | Neural cell adhesion molecule 1 |
| **UniProt Synonym Protein Names** | CD_antigen: CD56 |
| **UniProt Gene Name** | NCAM1 |
| **UniProt Synonym Gene Names** | NCAM; N-CAM-1; NCAM-1 |
| **UniProt Entry Name** | NCAM1_HUMAN |
| **NCBI Protein Information** | neural cell adhesion molecule 1; antigen recognized by monoclonal antibody 5.1H11; neural cell adhesion molecule, NCAM |
| **NCBI Summary for CD56** | This gene encodes a cell adhesion protein which is a member of the immunoglobulin superfamily. The encoded protein is involved in cell-to-cell interactions as well as cell-matrix interactions during development and differentiation. The encoded protein has been shown to be involved in development of the nervous system, and for cells involved in the expansion of T cells and dendritic cells which play an important role in immune surveillance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2011] |

| | |
|---|---|
| **UniProt Comments for CD56** | NCAM1: This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc. 6 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, GPI anchor; Membrane protein, integral; Cell adhesion; Motility/polarity/chemotaxis<br><br>Chromosomal Location of Human Ortholog: 11q23.1<br><br>Cellular Component: Golgi membrane; cell surface; membrane; integral to membrane; plasma membrane; external side of plasma membrane<br><br>Molecular Function: identical protein binding<br><br>Biological Process: axon guidance; extracellular matrix organization and biogenesis; cytokine and chemokine mediated signaling pathway; cell adhesion |
| **Research Articles on CD56** | **1.** Report differential diagnosis of Primary cutaneous NK/T-cell lymphoma, nasal type and CD56-positive peripheral T-cell lymphoma. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-mouse-antibody/cd56/6121648