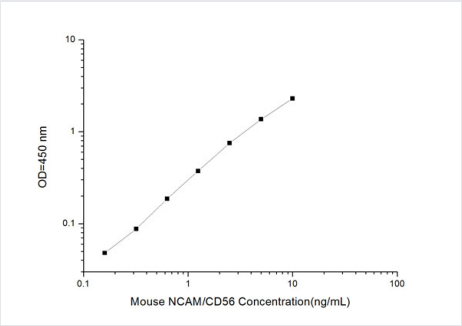
NCAM/CD56 ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	NCAM/CD56, ELISA Kit
Full Product Name	Mouse NCAM/CD56 (Neural Cell Adhesion Molecule) ELISA Kit
Product Gene Name	NCAM/CD56 elisa kit
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Serum, Plasma, Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	Min: 0.094ng/mL; Max: 10ng/mL
Specificity	This kit recognizes natural and recombinant Mouse NCAM/CD56. No significant cross-reactivity or interference between Mouse NCAM/CD56 and analogues was observed.
Preparation and Storage	Store at 4 degree C.
Molecular Weight	40,760 Da
OMIM	116930
3D Structure	ModBase 3D Structure for P13591
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NCAM/CD56 elisa kit	Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Mouse NCAM/CD56 concentrations in serum, plasma and other biological fluids. Principle of the Assay: This ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to NCAM/CD56. Standards or samples are added to the appropriate micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for NCAM/CD56 and Avidin-Horseradish Peroxidase (HRP) conjugate is added to each micro plate well successively and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain NCAM/CD56, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The OD value is proportional to the concentration of NCAM/CD56. You can calculate the concentration of NCAM/CD56 in the samples by comparing the OD of the samples to the standard curve.
Other Notes	Small volumes of NCAM/CD56 elisa kit 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 NCAM/CD56 purchase	MBS2511420 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the NCAM/CD56, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing NCAM/CD56. The ELISA analytical biochemical technique of the MBS2511420 kit is based on NCAM/CD56 antibody-NCAM/CD56 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NCAM/CD56 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NCAM/CD56. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of NCAM/CD56 elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	336285443
NCBI GeneID	4684
NCBI Accession #	NP_001229537.1
UniProt Primary Accession #	P13591
UniProt Secondary Accession #	P13592; P13593; Q05C58; Q15829; Q16180; Q16209; Q59FL7; Q86X47; Q96CJ3; A8K8T8
UniProt Related Accession #	P13591
GenBank Nucleotide #	NM_001242608.1
NCBI Official Full Name	neural cell adhesion molecule 1 isoform 4
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 NCAM/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 NCAM/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. Protein type: Membrane protein, GPI anchor; Motility/polarity/chemotaxis; Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 11q23.1 Cellular Component: Golgi membrane; cell surface; membrane; plasma membrane; integral to membrane; external side of plasma membrane Molecular Function: identical protein binding Biological Process: axon guidance; extracellular matrix organization and biogenesis; cytokine and chemokine mediated signaling pathway; cell adhesion
Research Articles on NCAM/CD56	**1.** NCAM expression in myelinating Schwann cells is indicative of early Schwann cell abnormalities.
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