

Product datasheet for **AM32056SU-S**

CD56 (NCAM1) Mouse Monoclonal Antibody [Clone ID: NKI-nbl-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NKI-nbl-1
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections: 1/10-1/20 preferably in PBS. Detection of NCAM on cultured cells and in frozen tissue sections. The antibody is further useful for studies on neoplasms of the lung and the nervous system.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	The antibody clone <i>NKI-nbl-1</i> recognizes a heterodimeric glycoprotein of 145, 185 kD which has been identified as NCAM (Neural Cell Adhesion Module). Two major epitopes have been defined, clone <i>NKI-nbl-1</i> reacts with epitope 1 and clone <i>123C3</i> reacts with epitope 2.
Formulation:	PBS State: Ascites State: Diluted Ascites Preservative: 0.02% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	neural cell adhesion molecule 1
Database Link:	Entrez Gene 4684 Human P13591



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Background:

NCAM, as a member of the immunoglobulin superfamily of adhesion molecules is characterized by several immunoglobulin (Ig) like domains. The extracellular part of NCAM consists of five of these Ig domains and two fibronectin type III homology regions. NCAM is encoded by a single copy gene composed of 26 exons. However, at least 20-30 distinct isoforms can be generated by alternative splicing and by posttranslational modifications, such as sialylation.

During sialylation, polysialic acid (PSA) carbohydrates are attached to the extracellular part of NCAM. Through its extracellular region, NCAM mediates homophilic interactions. In addition, NCAM can also undergo heterophilic interactions by binding extracellular matrix components, such as laminin, or other cell adhesion molecules, such as integrins. NCAM is expressed on most neuroectodermal derived cell lines, tissues and neoplasm such as retinoblastoma, medulloblastoma, astrocytomas and neuroblastoma.

Synonyms:

NCAM-1, N-CAM-1, NCAM