

## Product datasheet for **SM1142B**

### CD56 (NCAM1) Mouse Monoclonal Antibody [Clone ID: ERIC-1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	ERIC-1
Applications:	FC, WB
Recommended Dilution:	<b>Western Blot.</b> May also be used to study isoforms of NCAM expressed on different tumor types. Western blot for analysis of isoforms expressed, did not react with any of the leukemias or lymphomas tested (1). <b>Flow cytometry:</b> 1 µg to stain 6 x 10 <sup>5</sup> cells. <b>Not</b> for use in IHC with formalin-fixed, paraffin embedded sections. The binding of ERIC-1 to both normal and neoplastic tissue is lost when tissues are conventionally fixed in formalin and embedded in paraffin. The epitope was preserved when exposed to dehydrating fixatives such as cold acetone (-20°C) for 5 minutes.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human retinoblastoma tumor tissue, membrane fraction
Specificity:	Recognizes the (Mr 180, 145, 125 kDa) isoforms of the human neural cell adhesion molecule (NCAM) (1).
Formulation:	0.01 M PBS, pH 7.2, 1 % BSA as stabilizer and 0.09 % Sodium azide as preservative. Label: Biotin State: Liquid purified Ig fraction
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8 °C. DO NOT FREEZE! Should this product contain a precipitate we recommend microcentrifugation before use.
Stability:	Shelf life: one year from despatch.
Gene Name:	neural cell adhesion molecule 1



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**Database Link:** [Entrez Gene 4684 Human P13591](#)

**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