

Product datasheet for **SM1142A**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	ERIC-1
Applications:	FC, IHC, WB
Recommended Dilution:	ELISA: 50 ng/ml. Immunoblotting. Immunohistochemistry on Frozen Sections.
Reactivity:	Human, Porcine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human Retinoblastoma tumour.
Specificity:	This antibody recognises N-CAM expressed on developing and adult neuroectodermal tissues. Neuroectodermal tumours also stain including Glioma, ependymoma, neuroblastoma, medulloblastoma, retinoblastoma and teratoma. Oat cell carcinoma and Wilms tumour are also highly reactive. ERIC-1 will react on Natural Killer cells and recognises 180, 140 and 120 kD NCAM isoforms.
Formulation:	PBS without preservatives State: Azide Free State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C. 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