

## NCAM1

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC FC

**Recommended Dilution:**WB 1:500 - 1:1000 IHC 1:50 - 1:100 FC 1:20 - 1:100

**Calculated MW:**95kD

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein of human NCAM1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

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**Synonym:**

CD56;MSK39;NCAM;

**Catalog #:**A0393

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**4684

**Isotype:**IgG

**Swiss Prot:**P13591

**Purity:**Affinity purification

For research use only.

**Background:**

Neural cell adhesion molecule 1 (NCAM1, also known as CD56) is a cell adhesion glycoprotein of the immunoglobulin (Ig) superfamily. It is a multifunction protein involved in synaptic plasticity, neurodevelopment, and neurogenesis. NCAM1 is expressed on human neurones, glial cells, skeletal muscle cells, NK cells and a subset of T cells, and the expression is observed in a wide variety human tumors, including myeloma, myeloid leukemia, neuroendocrine tumors, Wilms' tumor, neuroblastoma, and NK/T cell lymphomas. Three major isoforms of NCAM1, with molecular masses of 120, 140, and 180 kDa, are generated by alternative splicing of mRNA (PMID: 9696812). The glycosylphosphatidylinositol (GPI)-anchored NCAM120 and the transmembrane NCAM140 and NCAM180 consist of five Ig-like domains and two fibronectin-type III repeats (FNIII). All three forms can be posttranslationally modied by addition of polysialic acid (PSA) (PMID: 14976519). Several other isofroms have also been described.

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