NCAM1/CD56
Polyclonal ANTIBODY
Catalog Number: 14255-1-AP

Basic Information
Catalog Number: 14255-1-AP
Size: 41 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
IHC: 1:200-1:800

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Applications
Tested Applications: FC, IHC, WB, ELISA
Cited Applications: IF, IHC, WB
Species Specificity: human, mouse, rat

Cited Species: human, mouse, rat
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Background Information
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 fibronection-type III repeats (FNIII). All three forms can be posttranslationally modified by addition of polysialic acid (PSA) (PMID: 14976519). Several other isoforms have also been described (PMID: 1856291).

Notable Publications
Author | Pubmed ID | Journal | Application
Ashley Gillon | 26385499 | Biogerontology | IF
Maegen A Ackermann | 28175556 | J Mol Cell Cardiol | WB, IF
Gisèle Montavon | 24947326 | Choncortarget | IHC

Storage
Store at -20°C. Stable for one year after shipment.

Storage Buffer: PB5 with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage.

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Selected Validation Data

Mouse brain tissue were subjected to SDS PAGE followed by western blot with 14255-1-AP NCAM1/CD56 antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human colon slide using 14255-1-AP NCAM1/CD56 antibody at dilution of 1:400.

10^6 SH-SY5Y cells were stained with 0.2ug NCAM1/CD56 antibody (14255-1-AP red) and control antibody, fixed with 90% MeOH, blocked with 3% BSA (30 min), Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.