

NCAM Rabbit PolymAb®

Catalog No.: A27193PM

Basic Information

Observed MW

120-220 kDa

Calculated MW

95 kDa

Category

Primary antibody

Applications

WB, IF/ICC, IF-P, IHC-P, mIHC, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes a cell adhesion protein which is a member of the immunoglobulin superfamily. The encoded protein is involved in cell-to-cell interactions as well as cell-matrix interactions during development and differentiation. The encoded protein plays a role in the development of the nervous system by regulating neurogenesis, neurite outgrowth, and cell migration. This protein is also involved in the expansion of T lymphocytes, B lymphocytes and natural killer (NK) cells which play an important role in immune surveillance. This protein plays a role in signal transduction by interacting with fibroblast growth factor receptors, N-cadherin and other components of the extracellular matrix and by triggering signalling cascades involving FYN-focal adhesion kinase (FAK), mitogen-activated protein kinase (MAPK), and phosphatidylinositol 3-kinase (PI3K). One prominent isoform of this gene, cell surface molecule CD56, plays a role in several myeloproliferative disorders such as acute myeloid leukemia and differential expression of this gene is associated with differential disease progression. For example, increased expression of CD56 is correlated with lower survival in acute myeloid leukemia patients whereas increased severity of COVID-19 is correlated with decreased abundance of CD56-expressing NK cells in peripheral blood. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms.

Recommended Dilutions

WB 1:10000 - 1:60000**IF/ICC** 1:200 - 1:800**IF-P** 1:200 - 1:800**IHC-P** 1:5000 - 1:20000**mIHC** 1:2000 - 1:8000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

4684/17967

Swiss Prot

P13591/P1595

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

CD56; NCAM; MSK39

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

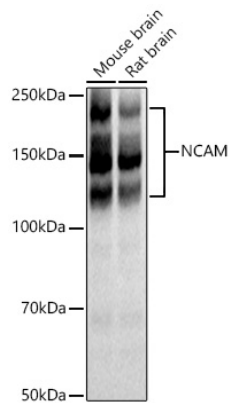
Storage

Store at -20°C

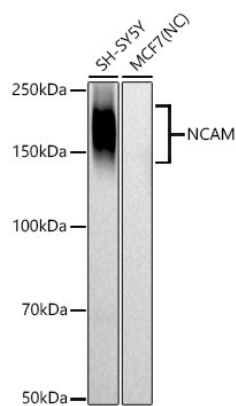
Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

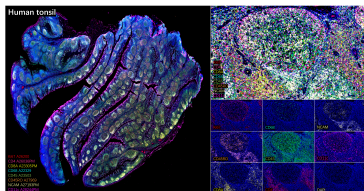
Validation Data



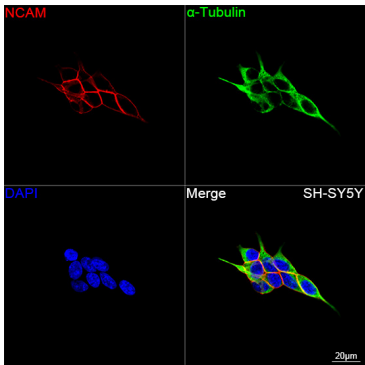
Western blot analysis of various lysates using NCAM Rabbit PolymAb® (A27193PM) at 1:16000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



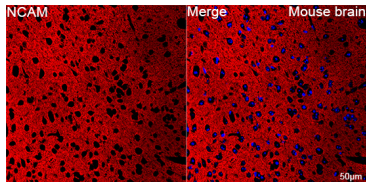
Western blot analysis of various lysates using NCAM Rabbit PolymAb® (A27193PM) at 1:16000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): MCF7
Exposure time: 30s.



The multiplex IHC analysis on paraffin-embedded Human tonsil tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Ki67 Rabbit mAb (A26200, 1:4000) with TSA-TYR-480 (Red), and CD4 Rabbit PolymAb® (A26036PM, 1:400) with TSA-TYR-520 (Light Magenta), and CD8A Rabbit PolymAb® (A23305PM, 1:1000) with TSA-TYR-570 (Yellow), and CD68 Rabbit mAb (A22329, 1:5000) with TSA-TYR-620 (Cyan), and CD45 Rabbit mAb (A23503, 1:1000) with TSA-TYR-690 (Lime Green), and Mouse anti-Human CD45RO mAb (A27969, 1:500) with TSA-TYR-570 (Orange), and NCAM Rabbit PolymAb® (A27193PM, 1:5000) with TSA-



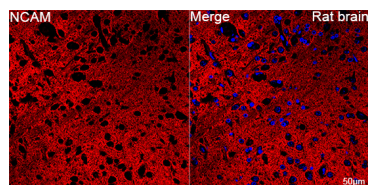
Confocal imaging of SH-SY5Y cells using NCAM Rabbit PolymAb® (A27193PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



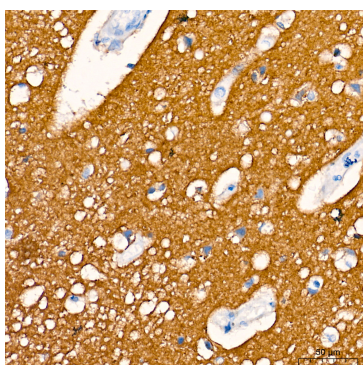
Confocal imaging of paraffin-embedded Mouse brain tissue using NCAM Rabbit PolymAb® (A27193PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Validation Data

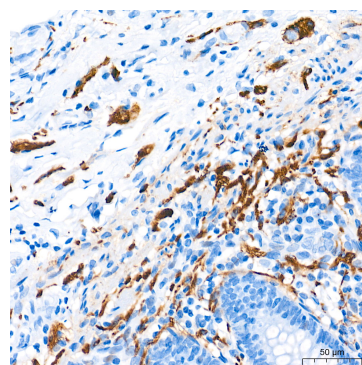
TYR-620 (Off-white), and CD11c Rabbit PolymAb® (A28244PM, 1:4000) with TSA-TYR-690 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 10x objective lens.



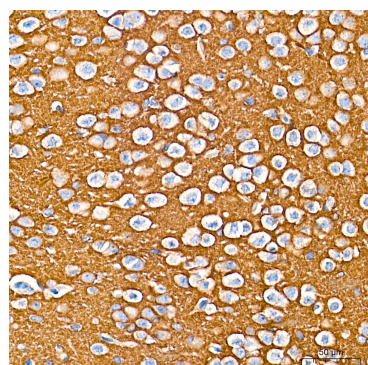
Confocal imaging of paraffin-embedded Rat brain tissue using NCAM Rabbit PolymAb® (A27193PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



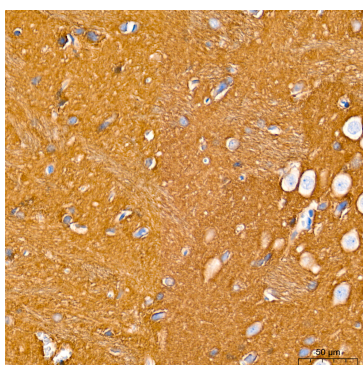
Immunohistochemistry analysis of paraffin-embedded Human brain tissue using NCAM Rabbit PolymAb® (A27193PM) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



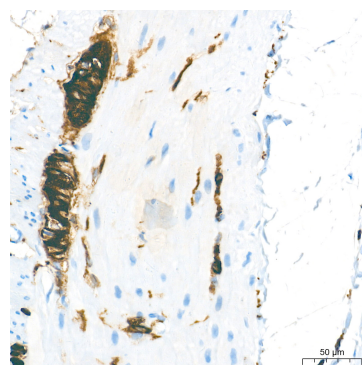
Immunohistochemistry analysis of paraffin-embedded Human appendix tissue using NCAM Rabbit PolymAb® (A27193PM) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using NCAM Rabbit PolymAb® (A27193PM) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using NCAM Rabbit PolymAb® (A27193PM) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using NCAM Rabbit PolymAb® (A27193PM) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.