

Polysialic acid Recombinant Antibody

Anti-Polysialic acid [735]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14183	Rabbit	Human, Mouse, Rat	Immunoblot, Western Blot, Immunoprecipitation, Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry

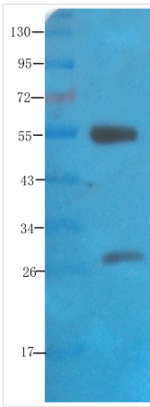
PRODUCT SYNONYMS

Polysialic acid; Anti-Polysialic acid [735]; PSA; N-CAM; neural cell adhesion molecule; polySA; Polysialic acid recombinant antibody

PRODUCT SPECIFICATIONS

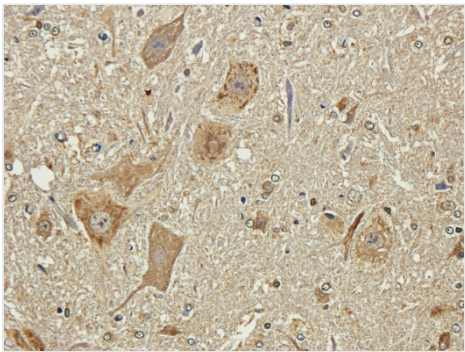
Host	Rabbit
Reactivity	Human, Mouse, Rat
Isotype	IgG, kappa
Clone Number	735
Specificity	Recognizes Polysialic acid (PSA), a carbohydrate polymer attached to the neural cell adhesion molecule (NCAM), which shares molecular epitopes with homopolymers of ?2,8-linked sialic acid of Escherichia coli K1.
Purity/Purification	Protein A Affinity Purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1 mg/mL (varies by lot)
Sequence Length	346
Applicable Applications for Polysialic acid recombinant antibody	IB (Immunoblot), IP (Immunoprecipitation), WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Application Notes	Clone 735 was used for immunostaining and immunoprecipitation in an experimental setup involving antigen preparation from PBMC (Peripheral Blood Mononuclear Cells) (Husmann et al., 1989; PMID: 2529126). This antibody recognises an unusual postranslational modification on neural cell adhesion molecules important in synaptogenesis, oncogenesis (particularly small-cell lung cancer) and development of organs such as the kidney (studied in rats, Lackie et al., 1990). 735 was used for Western blot analysis of PSA-NCAM (Polysialylated Neural Cell Adhesion Molecule) (Charter et al., 2000; PMID: 11030751). In addition to various studies on human cells, the antibody, has also been used the study the fine-composition of poly-sialic acid composition in mice (Galuska et al., 2006).
Immunogen	Homopolymers of ?2, 8-linked sialic acid of Escherichia coli K1.
Preparation and Storage	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

IMAGES



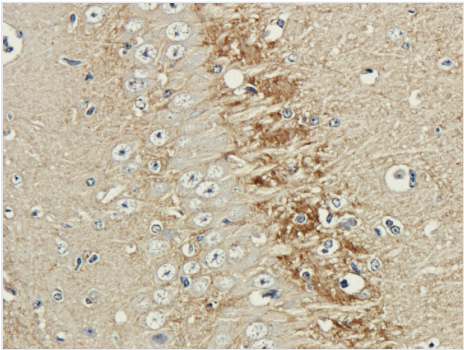
WB (Western Blot)

Western Blot using anti-polysialic acid antibody Rat brain lysate was resolved on a 10% SDS PAGE gel and blots probed with at 2 µg/ml before being detected by a secondary antibody.



IHC (Immunohistochemistry)

Immunohistochemical staining of rat spinal cord using anti-polysialic acid antibody AAA14183 Formalin fixed rat spinal cord slices were stained with a AAA14183 at 3 µg/ml.



IHC (Immunohistochemistry)

Immunohistochemical staining of guinea pig brain using anti-polysialic acid antibody AAA14183 Formalin fixed guinea pig brain slices were stained with AAA14183 at 3 µg/ml.

ADDITIONAL INFORMATION

Related Product Information for Polysialic acid recombinant antibody	Recombinant monoclonal antibody to Polysialic acid. Manufactured using a Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 735.
Product Categories/Family for Polysialic acid recombinant antibody	Neurobiology; Development; Cancer
References	Bitter-Suermann & Roth E Monoclonal antibodies to polysialic acid reveal epitope sharing between invasive pathogenic bacteria, differentiating cells and tumor cells. Immunol Res. 1987; 6(4):225-37. PMID:2448401

NCBI AND UNIPROT INFORMATION

NCBI GI #	349739497
NCBI Official Full Name	polysialic acid capsule biosynthesis sialic acid synthase NeuB

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-human-mouse-rat-recombinant-antibody/polysialic-acid/14183>