

Anti-Polysialic acid [735] Bulk Size Ab00240-1.7-BT

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Mouse IgG1 sequence with a short dimerization domain to improve stability and a his tag.

This reformatted murine antibody was made using the variable domain sequences of the original murine IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse F(ab)2, AbFab2™ His-Tagged, Kappa

Clone Number: 735

Alternative Name(s) of Target: PSA; N-CAM; neural cell adhesion molecule; polySA

UniProt Accession Number of Target Protein:

Published Application(s): immunoblot, IP, WB, FC, IHC

Published Species Reactivity: Rat, Human, Mouse

Immunogen: Homopolymers of α2,8-linked sialic acid of Escherichia coli K1.

Specificity: Recognises Polysialic acid (PSA), a carbohydrate polymer attached to the neural cell adhesion molecule (NCAM), which shares molecular epitopes with homopolymers of α2,8-linked sialic acid of Escherichia coli K1.

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).

Antibody First Published in: Bitter-Suermann & Roth 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](#)

Note on publication: Describes the generation of this antibody.

Product Form

Size:

500 µg Purified antibody in bulk size.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.