Anti-Polysialic acid [735] Standard Size Ab00240-1.6

This is a Fab fragment with 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 Fab fragment, 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: 100 µg Purified antibody.
Purification:

Purified by Immobilized Metal Affinity Chromatography
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.