MAG (A-11): sc-166849

**BACKGROUND**

Myelin-associated glycoprotein (MAG) is a nervous system cell-surface adhesion protein that is involved in linking myelinating glial cells to neuronal axons. MAG contains a sialic acid binding site and five IgG-like domains, thus identifying MAG as a member of a subgroup of the immunoglobulin superfamily. Like myelin, MAG inhibits axonal outgrowth and contributes to the inhibitory properties of myelin. Growth inhibition by MAG has been shown to be blocked when cerebellar neurons are pre-incubated with the neurotrophins BDNF or GDNF. It is suggested that this neurotrophin priming elevates cAMP and activates PKA.

**CHROMOSOMAL LOCATION**

Genetic locus: MAG (human) mapping to 19q13.12; Mag (mouse) mapping to 7 B1.

**SOURCE**

MAG (A-11) is a mouse monoclonal antibody raised against amino acids 1-300 mapping near the N-terminus of MAG of human origin.

**PRODUCT**

Each vial contains 200 μg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

MAG (A-11) is available conjugated to agarose (sc-166849 AC), 500 μg/mL agarose in 1.0 ml, for IP; to HRP (sc-166849 HRP), 200 μg/mL, for WB, IHC, and ELISA; to either phycoerythrin (sc-166849 PE), fluorescein (sc-166849 FITC), Alexa Fluor® 488 (sc-166849 AF488), Alexa Fluor® 546 (sc-166849 AF546), Alexa Fluor® 594 (sc-166849 AF594) or Alexa Fluor® 647 (sc-166849 AF647), 200 μg/mL, for WB (RGB), IF, IHC, or FCM; and to either Alexa Fluor® 680 (sc-166849 AF680) or Alexa Fluor® 790 (sc-166849 AF790), 200 μg/mL, for Near-Infrared (NIR) WB, IF, and FCM.

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**APPLICATIONS**

MAG (A-11) is recommended for detection of MAG of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as a control antibody for MAG siRNA (h): sc-35841, MAG siRNA (m): sc-35842, MAG shRNA Plasmid (h): sc-35841-SH, MAG shRNA Plasmid (m): sc-35842-SH, MAG shRNA (h) Lentiviral Particles: sc-35841-V and MAG shRNA (m) Lentiviral Particles: sc-35842-V.

Molecular Weight of MAG: 100 kDa.


**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

MAG (A-11): sc-166849. Western blot analysis of MAG expression in mouse brain (A), human brain (B), human cerebral cortex (C) and rat hippocampus (D) tissue extracts. Detection reagent used: m-IgG, BP-HRP: sc-516012.

MAG (A-11): sc-166849. Immunoperoxidase staining of formalin fixed, paraffin-embedded rat brain tissue showing cytoplasmic staining of neuronal cells, glial cells and endothelial cells and neuropsin staining (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human cerebral cortex tissue showing cytoplasmic staining of neuronal cells and neuropsin staining (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.