



20150116ML

Anti-Mouse Netrin-G1a (#4K62)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M440
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat) immunized with mouse recombinant protein of Netrin-G1a.

Target Background

Synonyms (Target):	Netrin-G1a
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Netrins have been identified as midline-derived chemoattractants that guide axons to the midline during development. Netrins are antagonized by Slit and Robo proteins which compete for DCC (deleted in colorectal cancer) receptor binding. Netrins also have axon repulsion effects when interacting with the UNC5 (uncoordinated-5) receptor family, either alone or with DCC receptors. Netrins are a laminin-related family of matrix-binding secreted proteins containing an N-terminal laminin gamma-chain-related globular domain (domain VI), three laminin EGF-like repeats, and a C-terminal heparin-binding domain. Netrin-G1a and Netrin-G2a are members of the GPI-linked Netrin subfamily distantly related to classic Netrins. Membrane-bound G-type Netrins are suggested to promote neurite outgrowth and perhaps impact neuronal plasticity. G-type Netrins are found only in vertebrates. Netrin-G1a and Netrin-G2a contain an N-terminal laminin globular domain (domain VI) followed by 3 laminin EGF-like repeats, and a C-domain with a hydrophobic signal for glycosylphosphatidylinositol (GPI) lipid linkage. The Netrin-G2a molecule also contains a C-terminal heparin binding site.

Database References Target

Protein RefSeq:	NP_032770.2
Uniprot ID:	O09118
mRNA RefSeq:	NM_008744.2

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#4K62)
Isotype	IgG2
Purification	Protein A/G chromatography
Antigen	mouse recombinant protein of Netrin-G1a
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody detects specifically mouse Netrin-G1a with WB.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:
WB

Recommended usage:**WB:** 1:100-500

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!