

Draxin (C-terminal region) Peptide

Cat. # DX3675

Size 50 µg

Background:

The developing nervous system assembles with the help of guidance molecules that control the trajectory of growing neurons. Axon guidance proteins such as, netrins, semaphorins, ephrins, and slits, are critical extracellular matrix cues for correctly wiring of the nervous system. Draxin is an axon guidance protein that has been observed to repel neurite outgrowth from dorsal spinal cord and cortical explants *in vitro*. Chick draxin consists of 349 amino acids with a putative signal peptide sequence at the N-terminal end but no membrane anchoring sequence, which suggests that draxin is a secreted protein. The ectopically expressed draxin has been shown to inhibit growth or cause misrouting of chick spinal cord commissural axons *in vivo*. In both chick and mouse, commissural neurons require draxin to successfully cross the midline and form the major commissures of the brain. Thus, draxin is a chemorepulsive axon guidance molecule required for the development of the spinal cord and forebrain commissures.

References

Islam, S. M. et al. (2009) Science 323(5912):388.

Hines, P. J. (2009) Sci. Signal. 2(54):ec23.

Peptide Sequence:

Draxin synthetic peptide corresponds to amino acid residues in the C-terminal region of human draxin. This peptide sequence is highly conserved in rat, mouse, and chick draxin.

Buffer and Storage:

Blocking Peptide is supplied in 50µl phosphate-buffered saline and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Applications:

Blocking 1:1000

ELISA 50 ng/well

End user should determine optimal concentration dependent on the concentration of the antibody. Recommended for blocking antibody reactivity in Western blot and immunocytochemistry. ELISA established in 96-well Nunc immunoplates where peptide was bound to plates for 2 hrs in 0.1 M sodium carbonate buffer, pH 8.5.

Specificity:

The peptide is specifically recognized by Draxin (C-terminal region) antibody (DP3671) in ELISA, and has been shown to block the reactivity of DP3671 in Western blot. In addition, the peptide is recommended for use in blocking DP3671 reactivity in immunocytochemistry.

Related Products:

DP3671 Draxin (C-terminal region) Rabbit Polyclonal
SK6190 Sema-3A and NRP1/Plexin A1 Receptor Antibody Sampler Kit
SK6240 Sema-4D and Plexin B1 Receptor Antibody Sampler Kit
EK6220 EphA4 Receptor Activation Antibody Sampler Kit
RK6100 Robo1 & Robo2 Antibody Sampler Kit
NM3641 Nogo A (Central region) Mouse Monoclonal

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