10320 Camino Santa Fe, Suite G
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Anti-Draxin (C-terminal region) Antibody
Catalog # AN1750

Specification

Anti-Draxin (C-terminal region) Antibody - Product Information

Application	**WB**
Primary Accession	Q8NBI3
Reactivity	**Bovine, Chicken**
Host	**Rabbit**
Clonality	**Rabbit Polyclonal**
Isotype	**IgG**
Calculated MW	**38650**

Anti-Draxin (C-terminal region) Antibody - Additional Information

Gene ID	**374946**

Other Names
C1orf187

Target/Specificity
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.

Dilution
WB~~1:1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Anti-Draxin (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Anti-Draxin (C-terminal region) Antibody - Protocols

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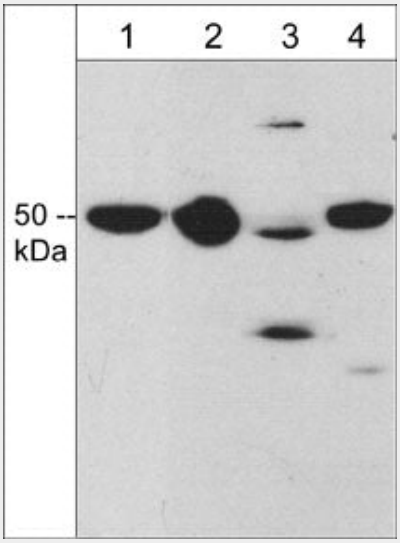
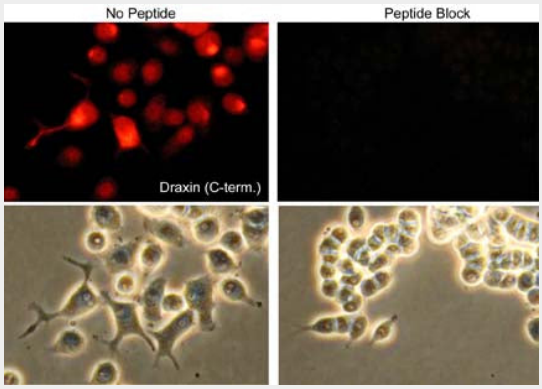
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Draxin (C-terminal region) Antibody - Images



Western blot analysis of draxin expression in rat PC12 cells (lane 1), rat P1 brain (lane 2), adult mouse brain (lane 3), and chick E9 brain (lane 4). The blot was probed with rabbit polyclonal anti-Draxin (C-terminal region) at 1:1000.



Immunocytochemical labeling of Draxin in rat PC12 cells differentiated with NGF. The cells were probed with Draxin (C-terminal region) rabbit polyclonal antibody, then the antibody was detected using appropriate secondary antibody conjugated to Cy3. The antibody was used in the absence (left) or presence (right) of blocking peptide (DX3675). Lower images show corresponding phase images.

Anti-Draxin (C-terminal region) Antibody - 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.