

DESCRIPTION

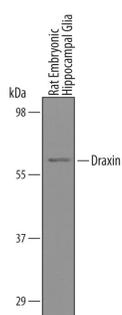
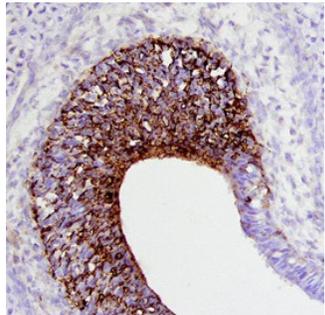
Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat Draxin in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant human Draxin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Draxin Gly26-Ile343 Accession # Q6PAL1
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Rat Draxin by Western Blot. Western blot shows lysates of rat embryonic hippocampal glial cells. PVDF Membrane was probed with 1 µg/mL of Mouse/Rat Draxin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6149) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Draxin at approximately 58 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunohistochemistry</p>  <p>Draxin in Mouse Embryo. Draxin was detected in immersion fixed frozen sections of mouse embryo (E13) using Mouse Draxin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6149) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cells in the midbrain. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Draxin (Dorsal repulsive axon guidance protein; also neucrin) is a secreted, 58 kDa, presumable glycoprotein member of the Draxin family of molecules. In mammals, it is expressed in neurons (axons), astroglia, and likely cells of the developing somite. Draxin acts as a Wnt antagonist, apparently by binding to LRP6. The net effect is to block neural crest migration, and the organization of axons into functional tracts or bundles (fasciculation). Mature mouse Draxin is 318 amino acids (aa) in length. It contains one potential N-linked glycosylation site, followed by a Cys-rich domain (aa 268-327). Mature mouse Draxin (aa 26-343) shares 80% aa identity with mature human Draxin, and 94% aa identity with mature rat Draxin.