

DESCRIPTION

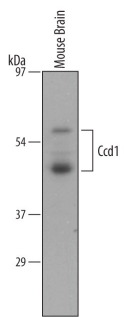
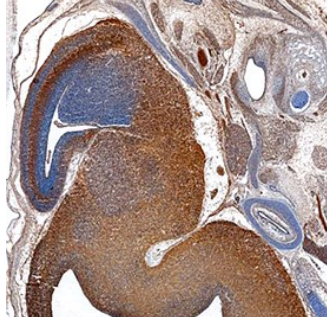
Species Reactivity	Mouse
Specificity	Detects mouse Ccd1/DIXDC1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Ccd1/DIXDC1 Gln481-Asn711 Accession # Q80Y83
Formulation	Lyophilized from a 0.2 µm filtered 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 Mouse Ccd1/DIXDC1 by Western Blot. Western blot shows lysates of mouse brain tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse Ccd1/DIXDC1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5599) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). Specific bands were detected for Ccd1/DIXDC1 at approximately 59 and 45 kDa (as indicated). This experiment was conducted under reducing conditions and using <i>Immunoblot Buffer Group 8</i>.</p>	<p>Immunohistochemistry</p>  <p>Ccd1/DIXDC1 in Mouse Embryo. Ccd1/DIXDC1 was detected in immersion fixed frozen sections of mouse embryo (13 d.p.c.) using Goat Anti-Mouse Ccd1/DIXDC1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5599) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to neopallial cortex and midbrain. View our protocol for <i>Chromogenic IHC Staining of Frozen Tissue Sections</i>.</p>
---	---

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

Coiled-coil-DIX1 (Ccd1), also known as DIXDC1, is an 80 kDa cytoplasmic actin-binding protein that mediates Wnt signaling by interacting with Dishevelled and Axin. It is highly expressed during nervous system development. Mouse Ccd1 contains a CH domain (aa 22-152), a coiled-coil domain (aa 279-452), and a DIX domain (aa 629-705). Multiple alternately spliced isoforms of mouse Ccd1 are expressed in a tissue specific manner during development and in the adult. These variants may lack approximately one third of the N-terminal region of the molecule or carry short deletions within the CH domain or spacer region between the coiled-coil and DIX domains. Over aa 481-711, mouse Ccd1 shares 88% and 75% aa sequence identity with human and rat Ccd1, respectively.