

**DESCRIPTION**

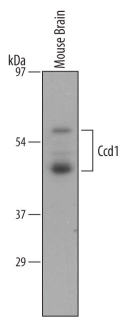
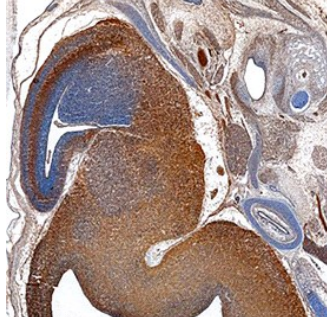
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Ccd1/DIXDC1 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Ccd1/DIXDC1 Gln481-Asn711 Accession # Q80Y83
<b>Formulation</b>	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.

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

**DATA**

<p><b>Western Blot</b></p>  <p><b>Detection of Mouse Ccd1/DIXDC1 by Western Blot.</b> 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><b>Immunohistochemistry</b></p>  <p><b>Ccd1/DIXDC1 in Mouse Embryo.</b> 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 &amp; 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>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**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.