

#### DESCRIPTION

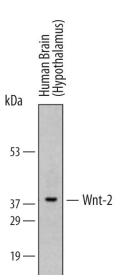
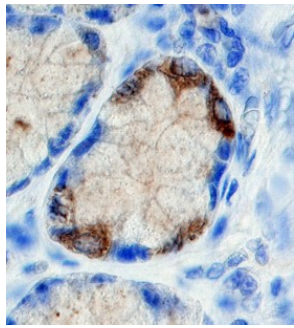
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Wnt-2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) Wnt-7a and rhWnt-7b is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Wnt-2 Thr33-Glu75, Leu222-Arg292 Accession # P09544
<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 either lyophilized or 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 Human Wnt-2 by Western Blot.</b> Western blot shows lysates of human brain (hypothalamus) tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Wnt-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3464) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Wnt-2 at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>Wnt-2 in Human Stomach Cancer Tissue</b> Wnt-2 was detected in immersion fixed paraffin-embedded sections of human stomach cancer tissue using 10 µg/mL Goat Anti-Human Wnt-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3464) overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained with the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</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

Human Wnt-2 is a 35 kDa, secreted, glycosylated member of the Wnt family of developmental proteins. It is considered a class 1 Wnt based on its strong transforming activity on C57MG cells. Human Wnt-2 is synthesized as a 360 amino acid (aa) precursor that contains a 335 aa mature region. The mature region contains 24 cysteines and two potential N-linked glycosylation sites. Mature human Wnt-2 is 96% aa identical to mature mouse and rat Wnt-2. Wnt-2 is produced by mammary myoepithelial cells, endometrial epithelial cells, and breast fibroblasts.