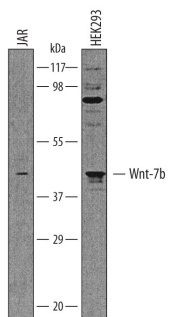


| DESCRIPTION | |
|---------------------------|--|
| Species Reactivity | Human |
| Specificity | Detects human Wnt-7b in direct ELISAs and Western blots. In Western blots, approximately 20% cross-reactivity with recombinant human (rh) Wnt-7a is observed and less than 5% cross-reactivity with recombinant mouse (rm) Wnt-1, rmWnt-3a, rmWnt-4, rmWnt-5a, rhWnt-9a, rmWnt-11, and rmWnt-16 is observed. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human Wnt-7b Leu32-Glu72 & Thr216-Ala283 Accession # P56706 |
| 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 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. | | |
| | Recommended Concentration | Sample |
| Western Blot | 1 µg/mL | See Below |
| Immunohistochemistry | 5-15 µg/mL | Immersion fixed paraffin-embedded sections of human pancreatic cancer tissue |

DATA

Western Blot



Detection of Human Wnt-7b by Western Blot. Western blot shows lysates of JAR human choriocarcinoma cell line and HEK293 human embryonic kidney cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Wnt-7b Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3460) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Wnt-7b at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

| 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

Wnt-7b is a 46 kDa, secreted glycosylated protein that belongs to the Wnt family. Wnt proteins can be lipid-modified and are ligands for members of the frizzled family of receptors, which mediates cell-cell communication during development. Human Wnt-7b is synthesized as a 349 amino acid (aa) precursor that contains a 318 aa mature region. The mature region contains 24 cysteines and three potential N-linked glycosylation sites. Mature human Wnt-7b shares 99% aa sequence identity with mature mouse and rat Wnt-7b. Wnt-7b also shares 80% aa sequence identity with Wnt-7a.