

## DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects recombinant human and recombinant mouse Wnt-2b in direct ELISAs and Western blots. In Western blots, approximately 20% cross-reactivity with recombinant human (rh) Wnt-2 is observed and less than 5% cross-reactivity with rhWnt-7a, -9a, recombinant mouse Wnt-1, -3a, -4, -5a, -5b, -8a, -8b, -9b, -10a, -10b, -11, and -16 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Wnt-2b Leu64-Glu104 and Arg251-Ala312 Accession # O70283
<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.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human Wnt-2b Recombinant Mouse Wnt-2b
<b>Immunocytochemistry</b>	5-15 µg/mL	Immersion fixed BT-20 human breast cancer cell line

## 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

Mouse Wnt-2b (also Wnt-13) is a 389 amino acid, 42kDa member of the large and highly conserved Wnt family of secreted, cysteine-rich glycoprotein signaling molecules. Wnt proteins are associated with developmental and carcinogenic processes. Wnt-2b may be necessary to maintain stem cells in an undifferentiated state. As a type II transmembrane protein with a long C-terminal extracellular and a short N-terminal cytoplasmic domain, Wnt-2b is presumably cleaved within its extracellular region to release the secreted form. In the region from aa 64-104, mouse Wnt-2b is 100% identical to the human and rat protein, and over the 251-312 aa region also used as immunogen, mouse Wnt-2b is 97% and 100% identical to the corresponding human and rat sequences, respectively.