

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Wnt-7b in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Wnt-1, -2, -7a, -9a, recombinant mouse Wnt-2b, -3a, -4, -5a, -5b, -8a, -8b, -9b, -10a, -10b, -11, or -16 is observed. Was not tested for cross-reactivity with mouse Wnt-7b.
Source	Monoclonal Mouse IgG _{2A} Clone # 355104
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Wnt-7b Leu32-Glu72 & Thr216-Ala283 Accession # NP_478679
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

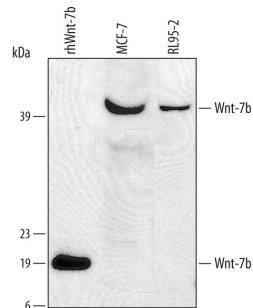
APPLICATIONS

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	5 µg/mL	See Below

DATA

Western Blot



Detection of Human Wnt-7b by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line and RL95-2 human endometrial carcinoma cell line. PVDF membrane was probed with 5 µg/mL Mouse Anti-Human Wnt-7b Monoclonal Antibody (Catalog # MAB3460) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human Wnt-7b (aa 32-72, 20 ng) was included. A specific band for Wnt-7b was detected at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 6.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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

Human Wnt-7b is a 46 kDa, secreted, glycosylated member of the Wnt family of developmental proteins. It is considered a class 3 Wnt based on its inability to transform C57MG cells. Human Wnt-7b is synthesized as a 349 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 is 99% identical to mature mouse and rat Wnt-7b and 80% identical to Wnt-7a. Wnt-7b is produced by mammary duct epithelium.