

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	This antibody detects human and mouse Wnt-4 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) Wnt-1, 2b, 5a, 5b, 8a, 8b, 9b, 10a, 10b, 11, 16, recombinant human (rh) Wnt-2, 3a, 7a, or 7b is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 55025
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Wnt-4 Ile37-Glu76 Accession # NP_033549
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 as a 0.2 µm filtered solution in PBS.

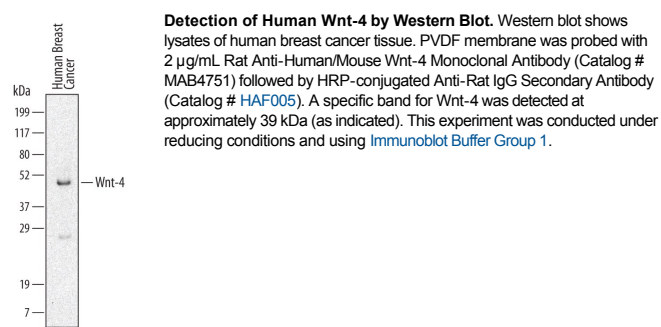
APPLICATIONS

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.

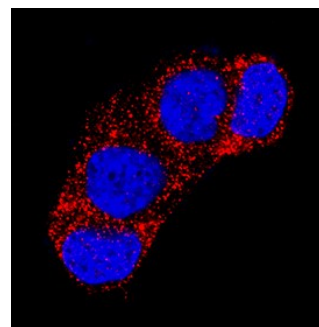
	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunocytochemistry	3-25 µg/mL	See Below
Immunohistochemistry	1-25 µg/mL	See Below

DATA

Western Blot

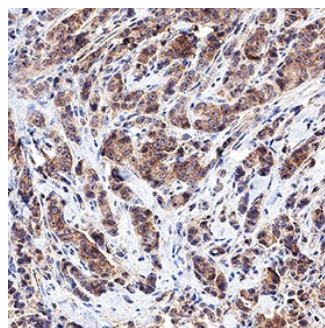


Immunocytochemistry



Wnt-4 in MCF-7 Human Cell Line. Wnt-4 was detected in immersion fixed MCF-7 human breast cancer cell line using Rat Anti-Human/Mouse Wnt-4 Monoclonal Antibody (Catalog # MAB4751) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

Immunohistochemistry



Wnt-4 in Human Breast Cancer Tissue. Wnt-4 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Rat Anti-Human/Mouse Wnt-4 Monoclonal Antibody (Catalog # MAB4751) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in cancer cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

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. *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-4 is a secreted glycoprotein that binds to receptors of the Frizzled family. Wnt-4 is important for multiple embryonic development processes including kidney morphogenesis.