

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects mouse Wnt-4 in direct ELISAs and Western blots. In sandwich immunoassays, this antibody is specific for human Wnt-4 as a capture antibody when paired with Sheep Anti-Human Wnt-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6076)
Source	Monoclonal Rat IgG _{2A} Clone # 55010
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Wnt-4 aa 37-76 and 222-295 Accession # P22724
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.

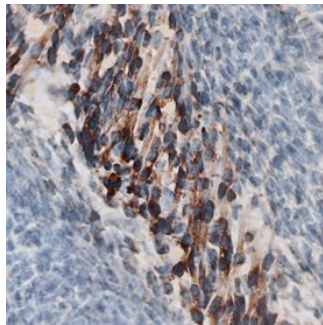
APPLICATIONS

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	Recombinant Mouse Wnt-4 (Catalog # 475-WN)
Immunohistochemistry	8-25 µg/mL	See Below
ELISA	This antibody functions as an ELISA capture antibody for Human Wnt-4 when paired with Sheep Anti-Human Wnt-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6076). This product is intended for assay development on various assay platforms requiring antibody pairs.	

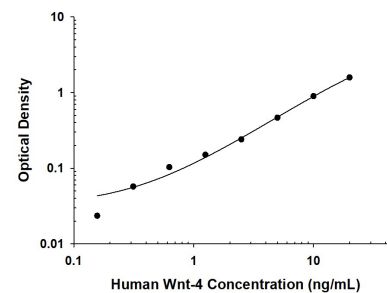
DATA

Immunohistochemistry



Wnt-4 in Mouse Embryo. Wnt-4 was detected in immersion fixed frozen sections of mouse embryo (13 d.p.c.) using Rat Anti-Mouse Wnt-4 Monoclonal Antibody (Catalog # MAB475) at 25 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 muscle cells. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

ELISA



Human Wnt-4 ELISA Standard Curve. Recombinant Human Wnt-4 protein was serially diluted 2-fold and captured by Rat Anti-Human/Mouse Wnt-4 Monoclonal Antibody (Catalog # MAB475) coated on a Clear Polystyrene Microplate (Catalog # [DY990](#)). Sheep Anti-Human Wnt-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # [AF6076](#)) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # [DY998](#)) followed by Substrate Solution (Catalog # [DY999](#)) and stopping the enzymatic reaction with Stop Solution (Catalog # [DY994](#)).

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.