

Monoclonal Rat IgG₁ Clone # 310622 Catalog Number: MAB3746

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Wnt-11 in direct ELISAs and Western blots. In these formats, this antibody shows no cross-reactivity with recombinant human Wnt-2, -7a, -7b, recombinant mouse Wnt-1, -3a, -4, -5a, -5b, -8a, -8b, or –9a. Western blotting with human cell extracts demonstrates that this antibody also detects human Wnt-11.
Source	Monoclonal Rat IgG ₁ Clone # 310622
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Wnt-11 Leu39-Ala79 and Ser225-Arg297 Accession # NP_033545
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	2 μg/mL	See Below			
Immunohistochemistry	8-25 µg/mL	See Below			

Data

Western Blot			
	404 307 404 404 404 407 404 404 404 4	Detection of Mouse Wnt-11 by Western Blot. Western blot shows lysates of mouse embryo (13 d.p.c.) tissue. PVDF Membrane was probed with 2 µg/mL of Rat Anti-Mouse Wnt-11 Monoclonal Antibody (Catalog # MAB3746) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Wnt-11 at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.	
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Immunohistochemistry



Wnt-11 in Mouse Embryo. Wnt-11 was detected in immersion fixed frozen sections of mouse embryo (15 d.p.c.) using Rat Anti-Mouse Wnt-11 Monoclonal Antibody (Catalog # MAB3746) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of muscle cells. View our protocol for Chromogenic IHC Staining of Frozen 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 $^\circ ext{C}$	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 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-11 belongs to the Wnt family of secreted, highly conserved, cysteine-rich signaling glcoproteins that are important in vertebrate development. Mouse Wnt-11a is expressed in early development and is required for cardiogenesis and branching morphogenesis of ureters. Wnt-11 signals by a non-canonical pathway and may repress canonical signaling by other Wnts. Mouse and human Wnt-11 shares 96% identity over the sequences expressed in the immunogen.

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