

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Wnt-9a in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Wnt-2, -3a, -6, -7a, -7b, recombinant mouse Wnt-1, -2b, -4, -5a, -5b, -8a, -8b, -9b, -10a, -10b, -11, or -16 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 326711
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Wnt-9a Pro48-Glu92 & Arg231-Phe304 Accession # O14904.2
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	5 µg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Western Blot</p> <p>Detection of Human Wnt-9a by Western Blot. Western blot shows lysates of KATO-III human gastric carcinoma cell line and ME-180 human cervical epithelial carcinoma cell line. PVDF membrane was probed with 5 µg/mL Mouse Anti-Human Wnt-9a Monoclonal Antibody (Catalog # MAB3157) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human Wnt-9a (20 ng) was included. Specific bands for native Wnt-9a were detected at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 6.</p>	<p>Intracellular Staining by Flow Cytometry</p> <p>Detection of Wnt-9a in MCF-7 Human Cell Line by Flow Cytometry. MCF-7 human breast cancer cell line was stained with Mouse Anti-Human Wnt-9a Monoclonal Antibody (Catalog # MAB3157, filled histogram) or isotype control AA175 antibody (Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.</p>
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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-9a (Wingless related integration site family member 9a, formerly Wnt-14) is a member of the Wnt family, which are ligands for frizzled family receptors. Wnt-9a is a secreted glycoprotein expressed in skeletal muscle and heart as well as in B-CLL and gastric, pancreatic and breast cancer cells. Human Wnt-9a shares 98% aa sequence identity with mouse and rat Wnt-9a.