Mouse Wnt-10a Antibody

Monoclonal Rat IgG_{2A} Clone # 342825

Catalog Number: MAB3469

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Wnt-10a in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Wnt-2, -7a, -7b, recombinant mouse Wnt-1, -3a, -4, -5a, -5b, -8a, -8b, or -9a is observed. Western blotting with human cell extracts demonstrates that this antibody also detects human Wnt-10a.
Source	Monoclonal Rat IgG_{2A} Clone # 342825
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse Wnt-10a Leu55-Glu95 and Gln278-Arg360 Accession # P70701
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

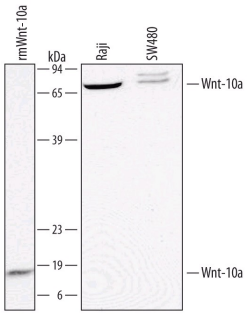
APPLICATIONS

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 Mouse Wnt-10a by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line and SW480 human bladder cancer cell line. PVDF membrane was probed with 5 µg/mL Rat Anti-Mouse Wnt-10a Monoclonal Antibody (Catalog # MAB3469) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). For additional reference, recombinant mouse Wnt-10a (2 ng) was included. A specific band for Wnt-10a was detected at approximately 70 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.** ● 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-10a is a presumably secreted, glycosylated member of the Wnt family of developmental proteins. Mouse Wnt-10a is synthesized as a 417 amino acid (aa) precursor that contains a 382 aa mature region. The mature region contains 24 cysteines and two potential N-linked glycosylation sites. Mature mouse Wnt-10a shares 96% and 99% aa sequence identity with mature human and rat Wnt-10a, respectively. Wnt-10a shares 64% aa sequence identity with Wnt-10b/12. Wnt-10a is produced by tumors and thymic epithelium.