Human/Mouse SALL4 Antibody

Monoclonal Mouse IgG_{2B} Clone # 651839

Catalog Number: MAB6374

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse SALL4 in Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 651839
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human SALL4 Lys96-Gly359 Accession # Q9UJQ4
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.

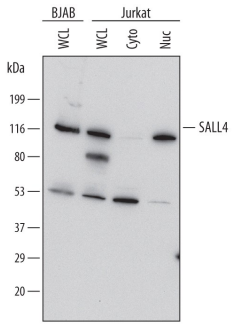
APPLICATIONS

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	0.025 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	Immersion fixed paraffin-embedded sections of human testis

DATA

Western Blot



Detection of Human SALL4 by Western Blot. Western blot shows lysates of BJAB human Burkitt's lymphoma cell line and Jurkat human acute T cell leukemia cell line. Gels were loaded with 30 µg of whole cell lysate (WCL), 20 µg of cytoplasmic (Cyto), and 10 µg of nuclear extracts (Nuc). PVDF membrane was probed with 0.025 µg/mL of Mouse Anti-Human/Mouse SALL4 Monoclonal Antibody (Catalog # MAB6374) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for SALL4 at approximately 115 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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.** ● 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

SALL4 (SAL-like protein 4) is a 1324 amino acid (aa) member of the SAL protein family that possess multiple C_2H_2-type zinc-fingers. It is a transcriptional repressor when associated with histone deacetylase and a transcriptional activator of the Wnt pathway in its native form. It contributes to generation of induced pluripotent stem cells and to axis formation during development. It is frequently overexpressed in germ cell tumors and acute myeloid leukemias. Mutations of human SALL4 can result in conditions such as Okihiro, Duane Radial Ray, or Holt-Oram syndromes. The region used as an immunogen is common to both SALL4 and the ubiquitous 617 aa isoform, SALL4B; it shares 76% aa identity between human and mouse.

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