

Monoclonal Anti-human SALL1 Antibody

ORDERING INFORMATION

Catalog Number: PP-K9814-00

Clone: K9814

GenBank: NM_002968

Ig Class: mouse IgG_{2A}

Volume: 100 µL

Concentration: 1 mg/mL

Formulation: A liquid formulation in physiologic saline with 0.1% NaN₃

Storage: ≤ -20 °C

Specificity: human SALL1

Applications: Western Blot
Direct ELISA
Immunohistochemistry
Immunoprecipitation

Description

Human SAL-like protein 1 (SALL1, HSAL-1) is a 1324 amino acid (aa) member of the SAL C₂H₂-type zinc-finger protein family. It is characterized by the presence of multiple C₂H₂ zinc-fingers and is expressed principally in kidney and brain. It is a transcriptional repressor when associated with histone deacetylase and a transcriptional activator of the Wnt pathway in its native form. There are at least 35 mutations associated with SALL1, mostly in the N-terminal third of the molecule. They result in short insertions, deletions, and premature terminations. For example, one mutation results in a 372 aa truncated protein, while a frameshift results in 68 new amino acids after amino acid 423.

Preparation

Produced in BALB/c mouse ascites inoculated with a hybridoma of spleen cells of a BALB/c mouse immunized with recombinant human SALL1 (amino acids 258-499) and mouse myeloma cells (NS-1). The IgG fraction of the ascites fluid was purified by ammonium sulfate fractionation.

Formulation

A liquid formulation in physiologic saline with 0.1% NaN₃.

Storage

This antibody is stable for greater than six months when held at -20 °C in a **manual defrost freezer** or at -70 °C. Upon thawing, the antibody can be stored at 2-8 °C for at least 1 month without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody specifically recognizes human SALL1 and cross-reacts with mouse SALL1. Not yet tested in other species.

Applications

Western Blot - This antibody can be used at 1 µg/mL under reducing conditions with the appropriate secondary reagents to detect human SALL1.

Direct ELISA - This antibody can be used at 0.5 µg/mL with the appropriate secondary reagents to detect human SALL1.

Immunohistochemistry - Optimal dilutions should be determined by each laboratory.

Immunoprecipitation - Optimal dilutions should be determined by each laboratory.

Optimal dilutions should be determined by each laboratory for each application.



Manufactured by:

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Caution: Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

FOR RESEARCH USE ONLY.
NOT FOR USE IN HUMANS.