SALL4 monoclonal antibody

Catalog: MB66220 Host: Mouse Reactivity: Human

BackGround:

Members of the SALL gene family encode putative zinc finger transcription factors highly expressed during development . Sall4 is expressed very early in development with other pluripotency regulators, such as Oct-4 and Nanog . Recent studies suggest Sall4 works as a master regulator that controls its own expression and the expression of Oct-4 in a transcriptional regulation feedback loop governing stem cell pluripotency and stem cell fate (2,3). Immunohistochemical studies indicate that Sall4 is a sensitive and specific diagnostic marker for primary germ cell tumors and yolk sac tumors (4,5). Research studies have shown that Sall4 is constitutively expressed in acute myeloid leukemia (AML) and is a probable effector of the Wnt/β-catenin signaling pathway in this disease . In addition, mutations in Sall4 have been implicated in human malformation syndromes including Duane-radial ray syndrome (Okihiro syndrome) and Acro-renal-ocular syndrome

Product:

Mouse IgG2b. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.

Molecular Weight:

~ 112 kDa

Swiss-Prot:

Q9UJQ4

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/500 - 1/1000), IHC (1/100 - 1/300)

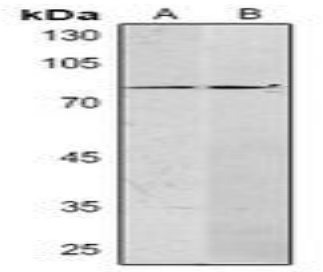
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

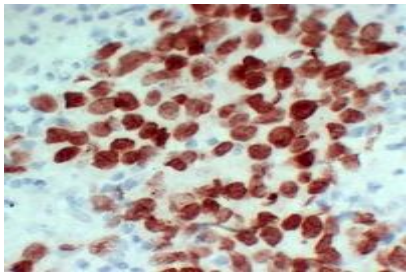
Specificity:

Recognizes endogenous levels of SALL4 protein.

DATA:



Western blot analysis of SALL4 expression in Hela (A), HEK293 (B) whole cell lysates.



Immunohistochemical analysis of SALL4 staining in human seminoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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