

Mouse Anti-SALL4 [6E3]: MC0197, MC0197RTU7

Intended Use: For Research Use Only

Description: The Sal-like protein 4, SALL4 is a zinc finger transcription factor located on chromosome 20q13.13-13.2. It is essential during development by maintaining embryonic stem cell pluripotency and self-renewal. Mutations in SALL4 lead to acro-renal-ocular and Okihiro syndromes, a disorder of the eyes and abnormalities of bones in the arms and hands. Recently, SALL4 has been identified as a novel sensitive diagnostic marker for germ cell tumors. Strong SALL4 staining was observed in all seminoma/dysgerminoma/germinomas, embryonal carcinomas, and yolk sac tumors, yielding 100% sensitivity for these malignancies. Compared with α -fetoprotein and glypican-3, SALL4 demonstrated superior sensitivity in detecting yolk sac tumors. Focal SALL4 staining was also observed in choriocarcinomas (66-71%) and teratomas (50-64%). In non-germ cell tumors, SALL4 is expressed in all cases of acute myeloid leukemia, and majority of precursor B-cell acute lymphoblastic lymphomas (79%). In a large immunohistochemical study of >3200 cases, SALL4 was also detected in ~20% of cases of ovarian, urothelial and gastric adenocarcinomas, and <5% in mammary, colorectal, prostatic and squamous cell carcinomas.

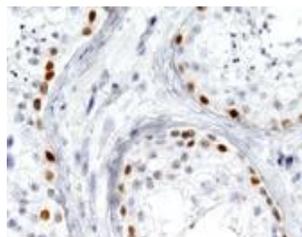
Specifications

Clone: 6E3
 Source: Mouse
 Isotype: IgG1
 Reactivity: Human, mouse
 Localization: Nucleus
 Formulation: Purified antibody in PBS pH7.4, containing BSA and \leq 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, WB
 Package:

Description	Catalog No.	Size
SALL4 Concentrated	MC0197	1 ml
SALL4 Prediluted	MC0197RTU7	7 ml

IHC Procedure

Positive Control Tissue: Yolk sac tumor
 Concentrated Dilution: 25-100
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual
 * Result should be confirmed by an established diagnostic procedure.



FFPE human testes tissue stained with anti-SALL4 using DAB

References:

1. SALL4 Expression in Hepatocellular Carcinomas Is Associated with EpCAM-Positivity and a Poor Prognosis. Park H, et al. J Pathol Transl Med. Sep;49(5):373-81.
2. ERG and SALL4 expressions in SMARCB1/INI1-deficient tumors: a useful tool for distinguishing epithelioid sarcoma from malignant rhabdoid tumor. Kohashi K, et al. Hum Pathol. Feb;46(2):225-30, 2015.
3. Hum Pathol. 2015 Feb;46(2):225-30. Expression of transcript factors SALL4 and OCT4 in a subset of non-small cell lung carcinomas (NSCLC). Rodriguez E, et al. Transl Respir Med. Oct 2;2(1):10, 2014.

Doc. 100-MC0197
Rev. A