

Mouse Anti-SALL4 [MD243]: MC0473, MC0473RTU7

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

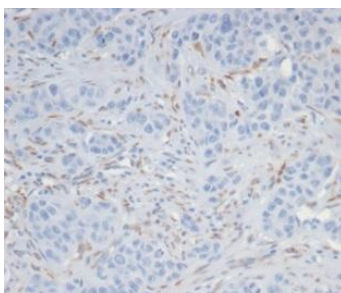
Clone:	MD243
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Immunogen:	Recombinant peptide of human SALL4 protein
Localization:	Nucleus
Formulation:	Purified antibody in PBS pH7.4, containing BSA and \leq 0.09% sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC
Package:	

Description	Catalog No.	Size
SALL4 Concentrated	MC0473	1 ml
SALL4 Prediluted	MC0473RTU7	7 ml

IHC Procedure

Positive Control Tissue:	Yolk sac tumor, testis
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 kidney cancer 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.