

Rabbit Anti-SALL4 [EP299]: RM0395, RM0395RTU7

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.

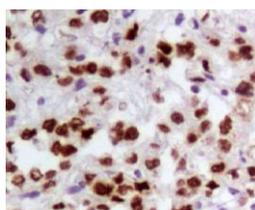
Specifications

Clone: EP299
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.5, containing < 0.2% BSA, 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C.
 Applications: IHC
 Package:

Description	Catalog No.	Size
SALL4 Concentrated	RM0395	1 ml
SALL4 Prediluted	RM0395RTU7	7 ml

IHC Procedure

Positive Control Tissue: Yolk sac tumor
 Concentrated Dilution: 50-200
 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 yolk sac tumor stained with anti-SALL4 using DAB

References:

1. The diagnostic and prognostic value of SALL4 in hepatoblastoma. Zhou S, et al. Histopathology. Nov;69(5):822-830, 2016.
2. Fluorescence- and magnetic-activated cell sorting strategies to isolate and enrich human spermatogonial stem cells. Valli H et al. Fertil Steril 102:566-580.e7, 2014.
3. SALL4 positive fetal gut-like adenocarcinoma of the duodenum. Kinoshita S, et al. Pathol Int. Nov;64(11):581-4, 2014.

Doc. 100-RM0395
Rev. A