


## **Mouse anti-human SALL4 Monoclonal Antibody (Clone EE-30)**

### **REFERENCES AND PRESENTATIONS<sup>1</sup>**

- **ready-to-use (ml)**  
MAD-000572QD-3  
MAD-000572QD-7  
MAD-000572QD-12
- **MD-Stainer presentations<sup>2</sup>**  
MAD-000572QD-3/V  
MAD-000572QD/V
- **concentrated**  
MAD-000572Q - 1:100 recommended dilution

### **COMPOSITION**

Anti-human SALL4 mouse monoclonal antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

**INTENDED USE** : Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

**CLONE:** EE-30

**Ig ISOTYPE:** Mouse IgG1

**SPECIES REACTIVITY:** In vitro diagnostics in humans. Not tested in other species

### **DESCRIPTION AND APPLICATIONS:**

Sall3 (SALL3, sal-like 3) and Sall4 (SALL4, sal-like 4) are mammalian homologs of the Drosophila region-specific homeotic gene spalt, which encodes a zinc finger-containing transcription regulator. Drosophila spalt is an essential genetic component required for the specification of posterior head and anterior tail as opposed to trunk. Sall3 is expressed at 24 weeks of gestation in several regions of the human fetal brain including neurons of the hippocampus formation and of mediodorsal and ventrolateral thalamic nuclei, Purkinje cells of the cerebellum and a subset of neurons in the brainstem. Sall4 expression in early mouse embryos is gradually confined to the head region and the primitive streak, followed by prominent expression in the developing midbrain, branchial arches, limbs and genital papilla.



SALL4 has been considered as a pan-marker for germ cell tumors. However, positivity might occur in undifferentiated neoplasm of digestive or urogenital system.

**IHC POSITIVE CONTROL:** Testicular germ cell neoplasia

**VISUALIZATION:** Nuclear

### **IHC RECOMMENDED PROCEDURE:**

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Master Diagnóstica EDTA buffer pH8<sup>3</sup> for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 20 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

**STORAGE AND STABILITY:**  up to 18 months;  stored at 2-8°C. Do not freeze.

### **WARNINGS AND PRECAUTIONS:**

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

### **SAFETY RECOMMENDATIONS**

This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at

<sup>3</sup> Ref: MAD-004072R/D

<sup>1</sup> These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:  
- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).  
- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).  
For different presentations (references / volumes) please contact the supplier.

<sup>2</sup> For Technical specifications for MD-Stainer, please contact your distributor.



#### BIBLIOGRAPHY

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4. Cao D, Li J, Guo CC, Allan RW, Humphrey PA. SALL4 is a novel diagnostic marker for testicular germ cell tumors. *Am J Surg Pathol*; 33(7):1065-77. 2009.
5. Ushiku T, Shinozaki A, Shibahara J, Iwasaki Y, Tateishi Y, Funata N, Fukayama M. SALL4 represents fetal gut differentiation of gastric cancer, and is diagnostically useful in distinguishing hepatoid gastric carcinoma from hepatocellular carcinoma. *Am J Surg Pathol*; 34(4): 533-40. 2010.
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