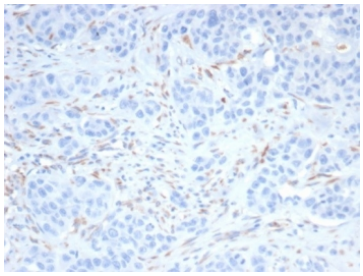
Sal-like 4 Antibody / SALL4 [clone SALL4/7802R] (V4833)

Catalog No.	Formulation	Size
V4833-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4833-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4833SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

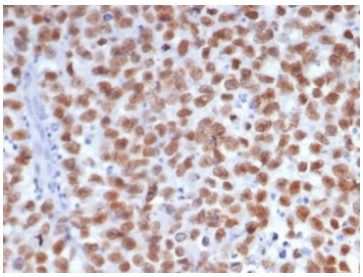
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	SALL4/7802R
Purity	Protein A affinity
UniProt	Q9UJQ4
Localization	Nucleus, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Sal-like 4 antibody is available for research use only.



Immunohistochemistry analysis of Sal-like 4 Antibody in human kidney cancer tissue. Formalin-fixed, paraffin-embedded human kidney carcinoma stained with Sal-like 4 antibody (clone SALL4/7802R) demonstrates nuclear HRP-DAB brown staining in scattered tumor cells, consistent with the expected subcellular localization of SALL4 as a transcription factor. The staining pattern highlights discrete nuclei within the neoplastic cell population, while surrounding stromal elements show minimal background signal. Nuclear localization aligns with the known function of Sal-like protein 4 in regulating gene expression and maintaining stem cell-associated transcriptional programs. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9, 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to immunostaining.



IHC staining of FFPE human seminoma tissue with Sal-like 4 antibody (clone SALL4/7802R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Sal-like 4 antibody recognizes Sal-like protein 4, a zinc finger transcription factor encoded by the SALL4 gene. Sal-like protein 4 is a nuclear DNA-binding protein that plays a central role in embryonic development, stem cell maintenance, and lineage specification. SALL4 is predominantly localized to the nucleus, where it regulates gene expression programs involved in pluripotency, self-renewal, and early organogenesis. It is a member of the Spalt-like family of transcription factors and contains multiple C2H2-type zinc finger domains that mediate sequence-specific DNA binding and transcriptional regulation.

SALL4 is highly expressed in embryonic stem cells and germ cells, where it functions as a core regulator of pluripotency networks alongside factors such as OCT4 and NANOG. In normal adult tissues, expression is typically low or restricted to specific progenitor populations. During development, SALL4 contributes to the formation of multiple organ systems, including limb, heart, and hematopoietic structures. Genetic alterations in SALL4 have been associated with developmental syndromes and congenital abnormalities, highlighting its importance in tissue patterning and morphogenesis.

Aberrant re-expression of SALL4 has been reported in various malignancies, including germ cell tumors, leukemias, and certain solid tumors. Because of its restricted expression in normal adult tissues and its role in stemness and tumor biology, SALL4 is widely studied as a marker of embryonic differentiation and oncogenic reprogramming. In immunohistochemistry, Sal-like 4 typically demonstrates nuclear staining in positive cells, consistent with its function as a transcription factor.

This Sal-like 4 antibody (clone SALL4/7802R) is suitable for detecting SALL4 expression in research applications. A Sal-like 4 antibody supports studies of stem cell biology, developmental regulation, germ cell tumor characterization, and oncogenic transcriptional programs.

Application Notes

Optimal dilution of the Sal-like 4 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 100-300) from the human protein was used as the immunogen for the Sal-like 4 antibody.

Storage

Aliquot the Sal-like 4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.