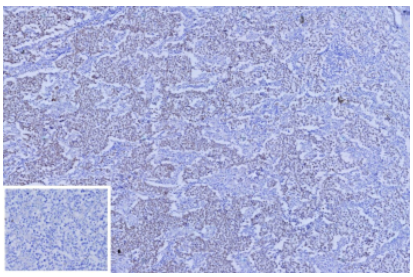
ZNF797 Antibody / Spalt-like Transcription Factor 4 / SALL4 [clone SALL4/12615] (V5976)

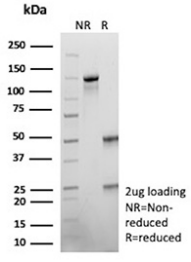
Catalog No.	Formulation	Size
V5976-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5976-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5976SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SALL4/12615
UniProt	Q9UJQ4
Localization	Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This ZNF797/Spalt-like Transcription Factor 4 antibody is available for research use only.



Immunohistochemistry analysis of ZNF797 / Spalt-like transcription factor 4 antibody (clone SALL4/12615) in human seminoma. FFPE human seminoma tissue shows strong nuclear brown chromogenic staining in tumor cells, consistent with the expected nuclear localization of this transcription factor. The staining is diffuse within the seminoma cell population, with minimal background in surrounding stromal elements. Heat induced epitope retrieval was performed by boiling sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 minutes at 95oC followed by cooling at RT for 20 minutes before antibody incubation.



SDS-PAGE Analysis of Purified ZNF797/Spalt-like Transcription Factor 4 antibody (SALL4/12615). Confirmation of Purity and Integrity of Antibody.

Description

ZNF797 antibody, also known as Spalt-like transcription factor 4 antibody, recognizes a zinc finger transcription factor encoded by the SALL4 gene that plays a critical role in embryonic development, stem cell pluripotency, and lineage specification. ZNF797 is a member of the Spalt-like family of C2H2 zinc finger proteins and functions primarily as a nuclear transcriptional regulator. It contains multiple zinc finger domains that mediate DNA binding as well as transcriptional repression or activation through recruitment of chromatin remodeling complexes. High expression of ZNF797 is observed in embryonic stem cells, germ cells, and early developmental tissues, where it supports maintenance of an undifferentiated state and regulates genes involved in proliferation and differentiation. In adult tissues, expression is more restricted but can be detected in select progenitor cell populations.

Spalt-like transcription factor 4 has been widely studied in the context of oncogenesis. Aberrant re-expression of ZNF797 in somatic tissues is associated with multiple malignancies, including germ cell tumors, hepatocellular carcinoma, acute myeloid leukemia, and other aggressive neoplasms. Its role in tumor biology is linked to promotion of proliferation, inhibition of differentiation, and interaction with epigenetic regulatory complexes such as NuRD. ZNF797 can act downstream of key pluripotency networks and is functionally connected with transcription factors including OCT4 and NANOG, reinforcing stem-like characteristics in cancer cells. Due to this biology, ZNF797 is frequently used as a diagnostic and research marker for germ cell tumors and stem cell related cancers.

The ZNF797 antibody is suitable for detecting nuclear expression patterns consistent with its function as a transcriptional regulator. In immunohistochemistry applications, positive staining is typically nuclear within germ cells, embryonal carcinoma components, or tumor cells with stem-like features. The recombinant monoclonal clone SALL4/12615 is designed to provide specific recognition of Spalt-like transcription factor 4 in research applications. Detection of ZNF797 expression can support studies of developmental biology, stem cell maintenance, epigenetic regulation, and tumor progression mechanisms.

Application Notes

Optimal dilution of the ZNF797/Spalt-like Transcription Factor 4 antibody should be determined by the researcher.

Immunogen

A recombinant fragment (around amino acids 200-500) of human SALL-4 protein (exact sequence is proprietary) was used as the immunogen for the ZNF797/Spalt-like Transcription Factor 4 antibody.

Storage

ZNF797/Spalt-like Transcription Factor 4 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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