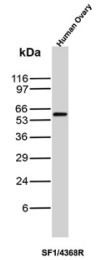
SF-1 Antibody for WB / Steroidogenic Factor 1 Western Blot Antibody [clone NR5A1/4368R] (V9450)

Catalog No.	Formulation	Size
V9450-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9450-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9450SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

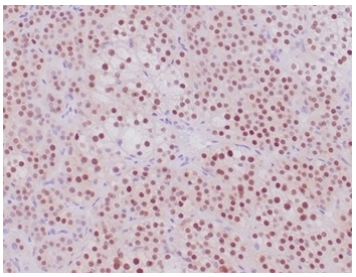
Recombinant RABBIT MONOCLONAL

Bulk quote request

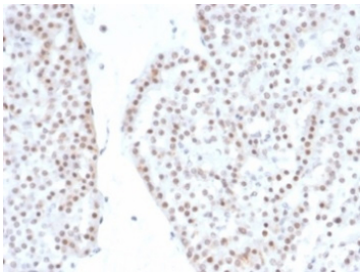
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	NR5A1/4368R
Purity	Protein A/G affinity
UniProt	Q13285
Localization	Nuclear
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This SF-1 Antibody for WB / Steroidogenic Factor 1 Western Blot Antibody is available for research use only.



SF-1 Antibody for WB Ovary. Western blot analysis of human ovary tissue lysate using SF-1 Antibody detects a strong band at approximately 55-60 kDa, consistent with steroidogenic factor 1 / NR5A1. The observed signal aligns with the established role of SF-1 as a nuclear receptor transcription factor involved in ovarian steroidogenesis, endocrine differentiation, and reproductive tissue-associated transcriptional regulation pathways.



SF-1 Antibody Adrenal Cortical Tumor IHC. Immunohistochemistry analysis of FFPE human adrenal cortical tumor tissue stained with recombinant SF-1 Antibody demonstrates strong diffuse nuclear HRP-DAB brown staining throughout neoplastic cellular populations, consistent with expression of steroidogenic factor 1 / NR5A1 in adrenal steroidogenic lineage-associated tumor cells. This steroidogenic factor 1 western blot antibody highlights nuclear localization patterns associated with endocrine differentiation, adrenal cortical identity, and steroid hormone-associated transcriptional regulation pathways. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SF-1 Antibody Renal Oncocytoma IHC. Immunohistochemistry analysis of FFPE human renal oncocytoma tissue stained with recombinant SF-1 Antibody demonstrates widespread nuclear HRP-DAB brown staining within oncocytic epithelial tumor cell populations, consistent with expression of steroidogenic factor 1 / NR5A1 in transcriptionally active neoplastic cellular compartments. This steroidogenic factor 1 western blot antibody highlights nuclear localization patterns associated with endocrine-associated transcriptional regulation and steroidogenic lineage-related signaling pathways. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Steroidogenic factor 1 (NR5A1), commonly known as SF-1, is a nuclear receptor transcription factor that regulates adrenal development, gonadal differentiation, steroid hormone biosynthesis, and endocrine-associated transcriptional signaling pathways. SF-1 functions as a master regulator of steroidogenic tissue identity through transcriptional control of genes involved in cholesterol metabolism, reproductive development, and steroid hormone synthesis. SF-1 Antibody for WB is useful for investigations involving endocrine differentiation, steroidogenic signaling pathways, reproductive tissue biology, and nuclear receptor-associated transcriptional regulation.

SF-1 antibody, also referred to as NR5A1 antibody, Steroidogenic factor 1 antibody, and Ad4BP antibody in the literature, recognizes a nuclear transcription factor encoded on chromosome 9q33.3. NR5A1 localizes predominantly to the nucleus, where it regulates expression of genes involved in adrenal steroidogenesis, gonadal development, reproductive signaling, and endocrine lineage specification. Expression of SF-1 is strongly associated with adrenal cortex, ovary, testis, and steroid-producing cellular populations.

SF-1 Antibody for WB / Steroidogenic Factor 1 Western Blot Antibody (clone NR5A1/4368R) is uniquely positioned for studies requiring strong detection of NR5A1 in western blot applications involving reproductive and endocrine-associated tissues. This recombinant rabbit monoclonal antibody demonstrates clear detection of SF-1 at approximately 55-60 kDa in human ovary lysates, consistent with the expected molecular weight and known endocrine-associated expression profile of steroidogenic factor 1. Clone NR5A1/4368R also supports tissue-based investigations involving steroidogenic differentiation and endocrine transcriptional regulation pathways.

SF-1 functions as a central transcriptional regulator of steroidogenic enzyme genes including CYP11A1, CYP17A1, STAR, and additional endocrine-associated metabolic regulators required for steroid hormone biosynthesis. Altered NR5A1 expression has been associated with adrenal disorders, reproductive developmental abnormalities, endocrine tumor biology, gonadal dysfunction, and steroidogenic pathway dysregulation. Because SF-1 expression is closely linked to steroid-producing cellular populations, it has become an important marker in studies involving endocrine lineage specification and reproductive tissue-associated neoplasia.

In western blot analysis, SF-1 is typically observed at approximately 55-60 kDa, consistent with the mature nuclear receptor protein. The predominantly nuclear localization pattern of NR5A1 additionally supports tissue-based studies examining endocrine-associated transcriptional activity and steroidogenic cellular differentiation. Recombinant rabbit monoclonal antibodies targeting SF-1 may provide strong signal intensity and selective detection in endocrine-associated

tissue lysates and histologic preparations.

This recombinant rabbit monoclonal SF-1 Antibody supports research involving steroidogenic transcriptional regulation, adrenal and gonadal differentiation, reproductive signaling pathways, endocrine-associated nuclear receptor biology, and steroid hormone-responsive transcriptional control. Clone NR5A1/4368R may be incorporated into western blot and tissue-based investigations examining endocrine lineage-associated transcriptional networks in normal and diseased tissues.

For highly specific SF-1 detection validated by large-scale HuProt(TM) protein microarray screening, see our SF-1 Antibody / Steroidogenic Transcription Factor Antibody page featuring clone NR5A1/3397 with IHC and microarray specificity validation data.

Application Notes

Optimal dilution of the SF-1 Antibody for WB / Steroidogenic Factor 1 Western Blot Antibody should be determined by the researcher.

Immunogen

A recombinant fragment of human SF-1 protein was used as the immunogen for the recombinant SF-1 antibody.

Storage

Aliquot the SF-1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

NR5A1 antibody, SF-1 antibody, Steroidogenic factor 1 antibody, SF-1 western blot antibody, Ad4BP antibody

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