

Steroidogenic Factor 1 Rabbit mAb

Catalog # AP78628

Product Information

Application	WB
Primary Accession	Q13285
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human STF1
Purification	Affinity Purified
Calculated MW	51636

Additional Information

Gene ID	2516
Other Names	NR5A1
Dilution	WB~~1/500-1/1000
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	NR5A1
Synonyms	AD4BP, FTZF1, SF1
Function	Transcriptional activator. Essential for sexual differentiation and formation of the primary steroidogenic tissues (PubMed: 27378692). Binds to the Ad4 site found in the promoter region of steroidogenic P450 genes such as CYP11A, CYP11B and CYP21B. Also regulates the AMH/Muellerian inhibiting substance gene as well as the AHCH and STAR genes. 5'-YCAAGGYC-3' and 5'-RRAGGTCA-3' are the consensus sequences for the recognition by NR5A1 (PubMed: 27378692). The SFPQ-NONO-NR5A1 complex binds to the CYP17 promoter and regulates basal and cAMP-dependent transcriptional activity. Binds phosphatidylcholine (By similarity). Binds phospholipids with a phosphatidylinositol (PI) headgroup, in particular PI(3,4)P2 and PI(3,4,5)P3. Activated by the phosphorylation of NR5A1 by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation.

Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00407, ECO:0000269 PubMed:11479297, ECO:0000269 PubMed:27490115}
Tissue Location	High expressed in the adrenal cortex, the ovary, the testis, and the spleen (PubMed:9177385)

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