

Steroidogenic Factor 1 (SF-1) (Transcription Factor) Antibody

Mouse Monoclonal Antibody [Clone SF1/12045]

Catalog No	Format	Size
2516-MSM16-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2516-MSM16-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2516-MSM16-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	SF1/12045
Immunogen	Recombinant human NR5A1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG
Mol. Weight of Antigen	51.64kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	High expressed in the adrenal cortex, the ovary, the testis, and the spleen (PubMed:9177385)

**Optimal dilution for a specific application should be determined.*

Product Images for Steroidogenic Factor 1 (SF-1) (Transcription Factor) Antibody

Specificity & Comments

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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.