
Product Name: KD-Validated Spermine Synthase Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01201**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 41.3kDa

Antigen Information

Gene Name	SMS
Alternative Names	SMS; Spermine Synthase; SPMSY; MRSR; Spermidine Aminopropyltransferase; SpS; SRS; Snyder-Robinson X-Linked Mental Retardation Syndrome; EC 2.5.1.22; MRXSSR; SPS
Gene ID	6611.0
SwissProt ID	P52788
Immunogen	A synthesized peptide derived from human Spermine synthase

Background

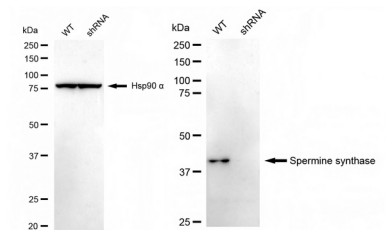
This gene encodes a protein belonging to the spermidine/spermin synthase family and catalyzes the production of spermine from spermidine. Pseudogenes of this gene are located on chromosomes 1, 5, 6 and X. Mutations in this gene cause an X-linked

intellectual disability called Snyder-Robinson Syndrome (SRS). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2017]

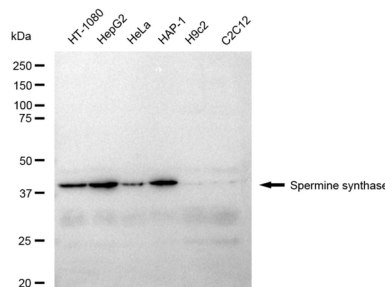
Research Area

Signal Transduction

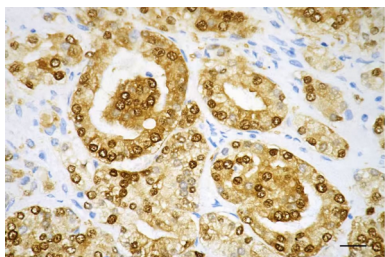
Image Data



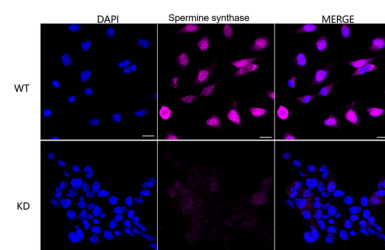
Western blotting analysis using Spermine synthase antibody (KVA01201). Spermine synthase expression in wild type (WT) and Spermine synthase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Spermine synthase antibody (KVA01201, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



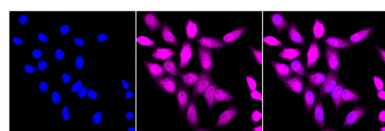
Western blotting analysis using Spermine synthase antibody (KVA01201). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Spermine synthase antibody (KVA01201, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



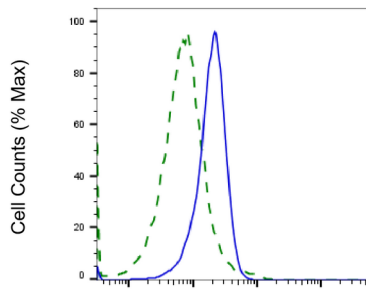
Immunohistochemistry was performed on paraffin-embedded human prostatic adenocarcinoma using spermine synthase antibody (KVA01201, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using Spermine synthase antibody (KVA01201, 1:1,000). Top panel: wild-type (WT); Bottom panel: Spermine synthase shRNA knockdown (KD). Nuclei were stained blue with DAPI; Spermine synthase was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

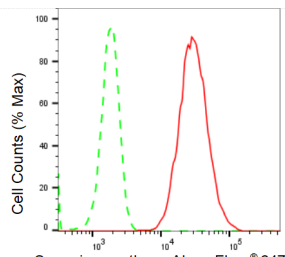


Immunocytochemical staining of HepG2 cells with Spermine synthase antibody (KVA01201, 1:1,000). Nuclei were stained blue with DAPI; Spermine synthase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Spermine synthase-Alexa Fluor® 647

Validation of Spermine synthase knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Spermine synthase antibody (KVA01201, 1:2,000) and analyzed using CytoFLEX.



Spermine synthase-Alexa Fluor® 647

Flow cytometric analysis of Spermine synthase expression in HepG2 cells using Spermine synthase antibody (KVA01201, 1:2,000). Green, isotype control; red, Spermine synthase