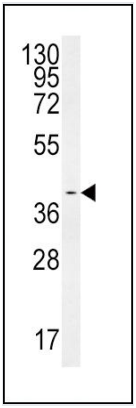
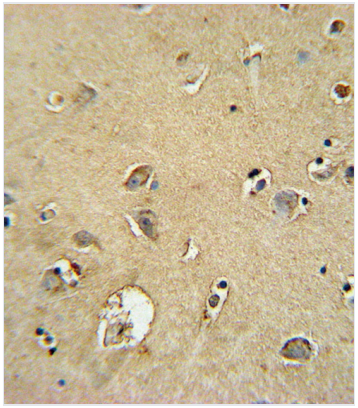
SMS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

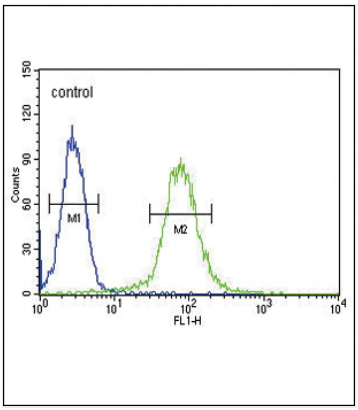
Product Name	SMS, Polyclonal Antibody
Full Product Name	SMS (SMS, Spermine synthase, Spermidine aminopropyltransferase) (FITC)
Product Gene Name	anti-SMS antibody
Product Synonym Names	SMS; Spermine synthase; Spermidine aminopropyltransferase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	41,268 Da
Chromosome Location	Chromosome: X; NC_000023.10 (21958842..22012955). Location: Xp22.1
OMIM	182891
3D Structure	ModBase 3D Structure for P19623
Immunogen	SMS Antibody is generated from rabbits immunized with recombinant protein of human SMS.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SMS antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-SMS antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-SMS antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SMS antibody	MBS6349070 is an antibody targeting SMS. Also known as SMS (SMS, Spermine synthase, Spermidine aminopropyltransferase) (FITC). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-SMS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SMS antibody
SMS Antibody western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the SMS antibody detected the SMS protein (arrow).



Immunohistochemistry (IHC) of anti-SMS antibody
SMS Antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SMS Antibody for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-SMS antibody
SMS Antibody flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMS. It may not necessarily be applicable to this product.

NCBI GI #	21264341
NCBI GeneID	6611
NCBI Accession #	NP_004586.2
UniProt Primary Accession #	P19623
UniProt Secondary Accession #	P52788
UniProt Related Accession #	P52788
GenBank Nucleotide #	NM_004595.3
NCBI Official Full Name	spermine synthase
NCBI Official Synonym Full Names	spermine synthase
NCBI Official Symbol	SMS
NCBI Official Synonym Symbols	SRS; SpS; MRSR; SPMSY
UniProt Protein Name	Spermidine synthase
UniProt Synonym Protein Names	Putrescine aminopropyltransferase

Protein Family	Basic phospholipase
UniProt Gene Name	SRM
UniProt Synonym Gene Names	SPS1; SRML1; SPDSY
UniProt Entry Name	SPEE_HUMAN
NCBI Protein Information	spermine synthase; OTTHUMP00000023048; OTTHUMP00000023049; spermidine aminopropyltransferase; Snyder-Robinson X-linked mental retardation syndrome
NCBI Summary for SMS	The protein encoded by this gene belongs to the spermidine/spermine synthases family. This gene encodes an ubiquitous enzyme of polyamine metabolism. [provided by RefSeq]
UniProt Comments for SMS	SRM: Catalyzes the production of spermidine from putrescine and decarboxylated S-adenosylmethionine (dcSAM). Has a strong preference for putrescine as substrate, and has very low activity towards 1,3-diaminopropane. Has extremely low activity towards spermidine. Belongs to the spermidine/spermine synthase family. Protein type: Amino Acid Metabolism - arginine and proline; Other Amino Acids Metabolism - glutathione; EC 2.5.1.16; Amino Acid Metabolism - cysteine and methionine; Other Amino Acids Metabolism - beta-alanine; Transferase Chromosomal Location of Human Ortholog: 1p36-p22 Cellular Component: cytosol Molecular Function: protein homodimerization activity; spermidine synthase activity Biological Process: spermidine biosynthetic process; polyamine metabolic process
Research Articles on SMS	**1.** Mutations in the spermine synthase have been shown to be responsible for an X-linked intellectual disability condition known as Snyder-Robinson syndrome.
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