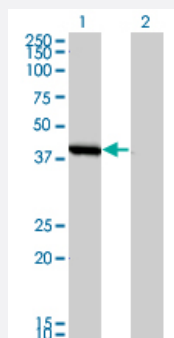


SMS monoclonal antibody (M01), clone 1G6

Catalog # H00006611-M01

Size 100 ug

Applications

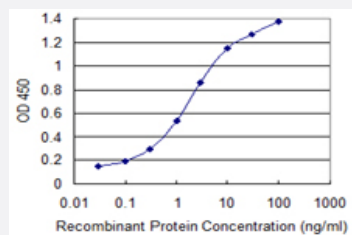


Western Blot (Transfected lysate)

Western Blot analysis of SMS expression in transfected 293T cell line by SMS monoclonal antibody (M01), clone 1G6.

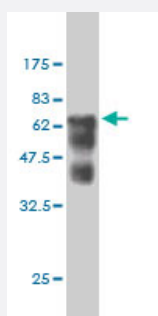
Lane 1: SMS transfected lysate (41.268 KDa).

Lane 2: Non-transfected lysate.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SMS is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (66 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant SMS.

Immunogen	SMS (AAH09898.1, 1 a.a. ~ 366 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAAARHSTLDFMLGAKADGETILKGLQSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYP HGLVLLDLQSYDGDAAQGKEEIDSLNKVEERMKELSQDSTGRVKRLPPVRRGAIDRYWPTADGR LVEYDIDEVVYDEDSFYQNIKLHKKQFGNILLSGDVNLAESDLAYTRAIMGSGKEDYTGKDVLLILGG GDGGILCENKLPKPMVTMVEIDQMVIDGCKKYMRTKCGDVLNLLKGDYQVLIEDCIPVLKRYAK EGREFDYINDLTAVPISTSPEDSTWEFLRLDLNLSMKVLKQDGKYFTQGNVCNLTALSLYEEQL GRLYCPVEFSKEMCVPSYLELWVFYTVWKKAKP
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Rat (97)
Isotype	IgG2a kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (66 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of SMS expression in transfected 293T cell line by SMS monoclonal antibody (M01), clone 1G6.

Lane 1: SMS transfected lysate(41.268 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SMS is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — SMS

Entrez GeneID	6611
GeneBank Accession#	BC009898
Protein Accession#	AAH09898.1
Gene Name	SMS
Gene Alias	MRSR, SPMSY, SRS, SpS
Gene Description	spermine synthase
Omim ID	300105 309583
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	spermidine aminopropyltransferase

Publication Reference

- [Modeling Snyder-Robinson Syndrome in multipotent stromal cells reveals impaired mitochondrial function as a potential cause for deficient osteogenesis.](#)

Ramsay AL, Alonso-Garcia V, Chaboya C, Radut B, Le B, Florez J, Schumacher C, Fierro FA.

Scientific Reports 2019 Oct; 9(1):15395.

Application: WB, Human, Human bone marrow-derived multipotent stromal cells

- [A Y328C missense mutation in spermine synthase causes a mild form of Snyder-Robinson syndrome.](#)

Zhang Z, Norris J, Kalscheuer V, Wood T, Wang L, Schwartz C, Alexov E, Van Esch H.

Human Molecular Genetics 2013 Sep; 22(18):3789.

Application: WB-Ce, Human, Lymphoblast cells

Pathway

- [Arginine and proline metabolism](#)
- [beta-Alanine metabolism](#)
- [Cysteine and methionine metabolism](#)

- [Glutathione metabolism](#)
- [Metabolic pathways](#)