

Product datasheet for **TA503097AM**

Spermine synthase (SMS) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3A8]

Product data:

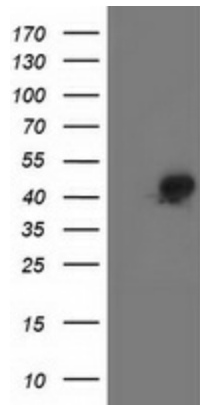
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|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI3A8 |
| Applications: | FC, IF, IHC, WB |
| Recommended Dilution: | WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human SMS (NP_004586) produced in HEK293T cell. |
| Formulation: | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Concentration: | 0.5 mg/ml |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Biotin |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 41.1 kDa |
| Gene Name: | spermine synthase |
| Database Link: | NP_004586 Entrez Gene 20603 Mouse Entrez Gene 363469 Rat Entrez Gene 6611 Human P52788 |
| Background: | 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] |
| Synonyms: | MRSR; SPMSY; SpS; SRS |



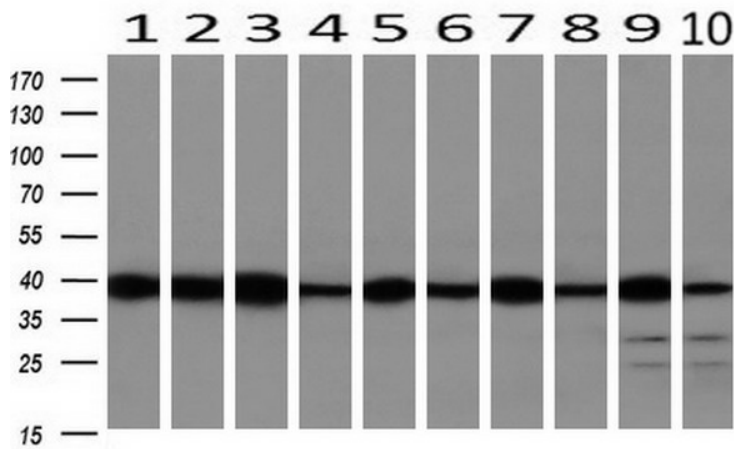
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Protein Pathways: Arginine and proline metabolism, beta-Alanine metabolism, Cysteine and methionine metabolism, Glutathione metabolism, Metabolic pathways

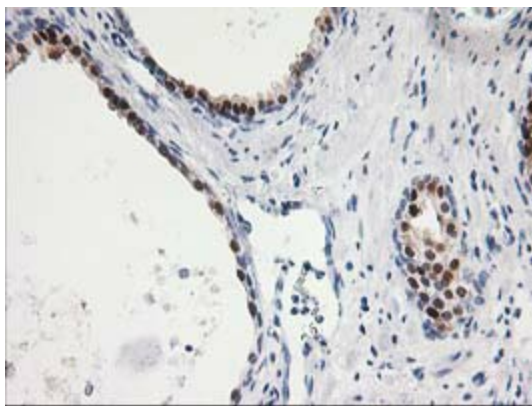
Product images:



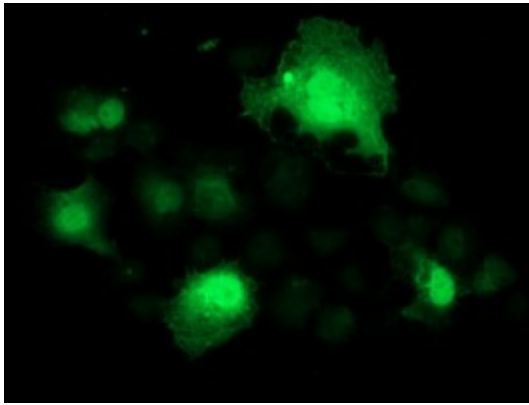
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SMS ([RC200619], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SMS. Positive lysates [LY417877] (100ug) and [LC417877] (20ug) can be purchased separately from OriGene.



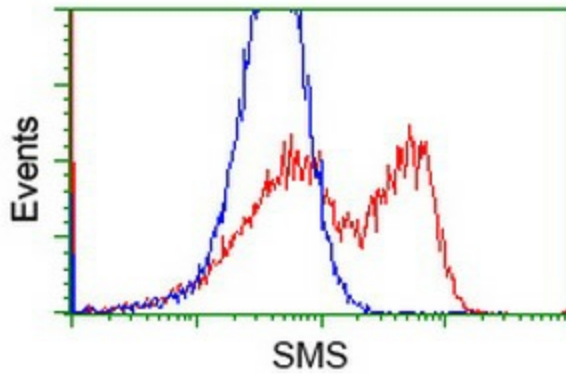
Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-SMS monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon; 10: spleen).



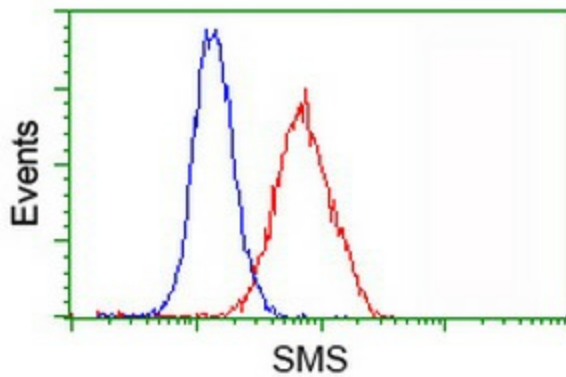
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-SMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503097])



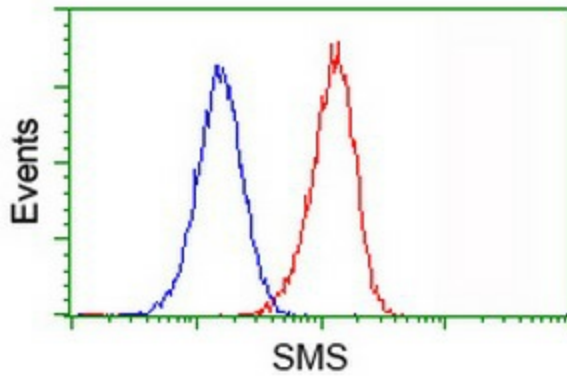
Anti-SMS mouse monoclonal antibody ([TA503097]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SMS ([RC200619]).



HEK293T cells transfected with either [RC200619] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SMS antibody ([TA503097]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-SMS antibody ([TA503097]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-SMS antibody ([TA503097]), (Red), compared to a nonspecific negative control antibody, (Blue).