

## Rabbit anti-Human Spermidine synthase/SRM Polyclonal Antibody | anti-SRM antibody

Anti-Spermidine synthase/SRM Antibody Picoband

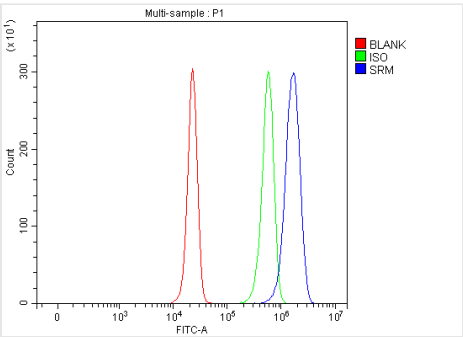
|                               |                       |                            |                                                                              |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA127068</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Flow Cytometry, Functional Assay, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

Spermidine synthase/SRM; Polyclonal Antibody; Anti-Spermidine synthase/SRM Antibody Picoband; Growth/differentiation factor 15; neutrophil cytosolic factor 1; Neutrophil cytosol factor 1; NCF-1; 47 kDa autosomal chronic granulomatous disease protein; 47 kDa neutrophil oxidase factor; NCF-47K; Neutrophil NADPH oxidase factor 1; Nox organizer 2; Nox-organizing protein 2; SH3 and PX domain-containing protein 1A; p47-phox; NCF1; NOXO2; SH3PXD1A; anti-SRM antibody

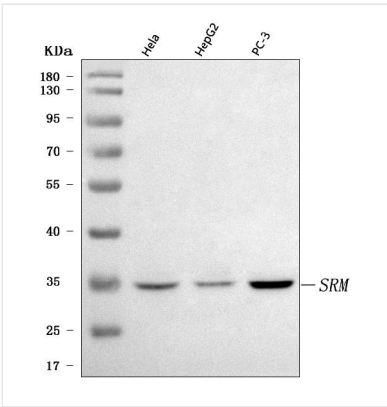
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                |
| Reactivity                                    | Human                                                                                                                                                                                                                 |
| Clonality                                     | Polyclonal                                                                                                                                                                                                            |
| Isotype                                       | Rabbit IgG                                                                                                                                                                                                            |
| Specificity                                   | Detected in peripheral blood monocytes and neutrophils (at protein level).                                                                                                                                            |
| Purity/Purification                           | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                   | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-SRM antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                   |
| Immunogen                                     | E coli-derived human Spermidine synthase/SRM recombinant protein (Position: A15-E292).                                                                                                                                |
| Subcellular Localization                      | Cytoplasm, cytosol                                                                                                                                                                                                    |
| Reconstitution                                | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Cross Reactivity                              | No cross-reactivity with other proteins.                                                                                                                                                                              |
| Protein Function                              | NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production).                                                                       |
| Preparation and Storage                       | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-Spermidine synthase/SRM antibody (AAA127068).Overlay histogram showing HepG2 cells stained with AAA127068 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Spermidine synthase/SRM Antibody (AAA127068, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. Dylight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of Spermidine synthase/SRM using anti-Spermidine synthase/SRM antibody (AAA127068).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HeLa whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human PC-3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Spermidine synthase/SRM antigen affinity purified polyclonal antibody (#AAA127068) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Spermidine synthase/SRM at approximately 34 kDa. The expected band size for Spermidine synthase/SRM is at 34 kDa.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SRM antibody | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.                                                                                                                                                                                                                                                                                                                                                                   |
| Product Categories/Family for anti-SRM antibody   | Primary Antibodies; Cancer; Cancer Metabolism; Energy Metabolism; Energy Transfer Pathways; Metabolic Signaling Pathways; Metabolism; Pathways and Processes; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| References                                        | 1. Myohanen, S., Kauppinen, L., Wahlfors, J., Alhonen, L., Janne, J. Human spermidine synthase gene: structure and chromosomal localization. DNA Cell Biol. 10: 467-474, 1991. 2. Wahlfors, J., Alhonen, L., Kauppinen, L., Hyvonen, T., Janne, J., Eloranta, T. O. Human spermidine synthase: cloning and primary structure. DNA Cell Biol. 9: 103-110, 1990. Note: Erratum: DNA Cell Biol. 9: 543 only, 1990.3. Winqvist, R., Alanen, L., Grzeschik, K.-H., Janne, J., Eloranta, T. Mapping of DNA sequences for spermidine synthase to human chromosome 1p36-p22 and chromosome 3p14-q21. (Abstract) Cytogenet. Cell Genet. 58: 1865 only, 1991. |

NCBI AND UNIPROT INFORMATION

|                                  |                        |
|----------------------------------|------------------------|
| NCBI GI #                        | 63253298               |
| NCBI GeneID                      | 6723                   |
| NCBI Accession #                 | NP_003123.2            |
| NCBI GenBank Nucleotide #        | NM_003132.2            |
| UniProt Accession #              | P19623; Q15511; B1AKP9 |
| Molecular Weight                 | 33,825 Da              |
| NCBI Official Full Name          | spermidine synthase    |
| NCBI Official Synonym Full Names | spermidine synthase    |
| NCBI Official Symbol             | SRM                    |

|                               |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| NCBI Official Synonym Symbols | PAPT; SPS1; SPDSY; SRML1                                                      |
| NCBI Protein Information      | spermidine synthase; putrescine aminopropyltransferase; spermidine synthase-1 |
| UniProt Protein Name          | Spermidine synthase                                                           |
| UniProt Gene Name             | <b>SRM</b>                                                                    |
| UniProt Synonym Gene Names    | SPS1; SRML1; SPDSY                                                            |
| UniProt Entry Name            | SPEE_HUMAN                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/spermidine-synthase-srm-antibody-flow-cytometry-western-blot-elisa/127068>