

## Rabbit anti-Human SDS Polyclonal Antibody | anti-SDS antibody

Anti-SDS Antibody Picoband

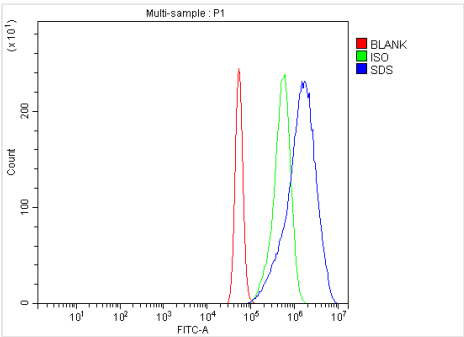
|                               |                       |                            |                                                                              |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA126210</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Flow Cytometry, Functional Assay, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

SDS; Polyclonal Antibody; Anti-SDS Antibody Picoband; anti-SDS antibody

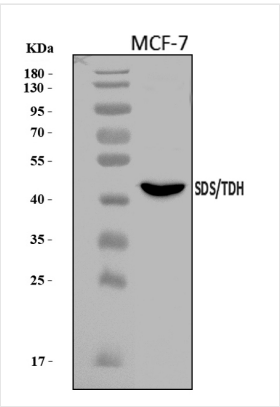
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                       |
| Reactivity                                    | Human                                                                                                                                                                                                                        |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                   |
| Isotype                                       | Rabbit IgG                                                                                                                                                                                                                   |
| Purity/Purification                           | Immunogen affinity purified.                                                                                                                                                                                                 |
| Form/Format                                   | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                     |
| Concentration                                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                    |
| Applicable Applications for anti-SDS antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                          |
| Reconstitution                                | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                    |
| Immunogen                                     | E Coli-derived human SDS recombinant protein (Position: M1-K328).                                                                                                                                                            |
| Preparation and Storage                       | Store 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 A431 cells using anti-SDS antibody (AAA126210).Overlay histogram showing A431 cells stained with AAA126210 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SDS Antibody (AAA126210, 1 ug/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 (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of SDS using anti-SDS antibody (AAA126210).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 MCF-7 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-SDS antigen affinity purified polyclonal antibody (#AAA126210) at 0.25 ug/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 SDS at approximately 42 kDa. The expected band size for SDS is at 35 kDa.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SDS antibody | Serine dehydratase or L-serine ammonia lyase (SDH) is in the beta-family of pyridoxal phosphate-dependent (PLP) enzymes. This gene encodes one of three enzymes that are involved in metabolizing serine and glycine. L-serine dehydratase converts L-serine to pyruvate and ammonia and requires pyridoxal phosphate as a cofactor. The encoded protein can also metabolize threonine to NH4+ and 2-ketobutyrate. The encoded protein is found predominantly in the liver. |
| Product Categories/Family for anti-SDS antibody   | Primary Antibodies, Rabbit Polyclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 18088452                                                                                                             |
| NCBI GeneID                      | 10993                                                                                                                |
| UniProt Accession #              | P20132; A8K9P5                                                                                                       |
| Molecular Weight                 | 34,625 Da                                                                                                            |
| NCBI Official Full Name          | SDS protein                                                                                                          |
| NCBI Official Synonym Full Names | serine dehydratase                                                                                                   |
| NCBI Official Symbol             | SDS                                                                                                                  |
| NCBI Official Synonym Symbols    | SDH                                                                                                                  |
| NCBI Protein Information         | L-serine dehydratase/L-threonine deaminase; TDH; L-serine deaminase; L-serine ammonia-lyase; L-threonine dehydratase |
| UniProt Protein Name             | L-serine dehydratase/L-threonine deaminase                                                                           |
| UniProt Gene Name                | SDS                                                                                                                  |
| UniProt Synonym Gene Names       | SDH; SDH; TDH                                                                                                        |

**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://www.aaabiotech.com/polyclonal/sds-antibody-flow-cytometry-western-blot-elisa/126210>