

SDS Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9041a

Specification

SDS Antibody (N-term) - Product Information

Application	WB, FC,E
Primary Accession	P20132
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34625
Antigen Region	1-30

SDS Antibody (N-term) - Additional Information

Gene ID 10993

Other Names

L-serine dehydratase/L-threonine deaminase, SDH, L-serine deaminase, L-threonine dehydratase, TDH, SDS, SDH

Target/Specificity

This SDS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SDS.

Dilution

WB~~1:1000

FC~~1:10~50

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SDS Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SDS Antibody (N-term) - Protein Information

Name SDS

Synonyms SDH

Function Catalyzes the pyridoxal-phosphate-dependent dehydrative deamination of L-threonine and L-serine to ammonia and alpha- ketobutyrate and pyruvate, respectively.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P09367}.

Tissue Location

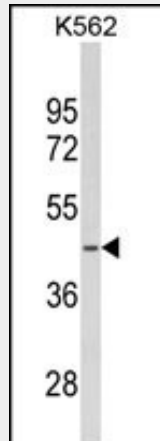
Predominantly expressed in the perivenous regions of the liver.

SDS Antibody (N-term) - Protocols

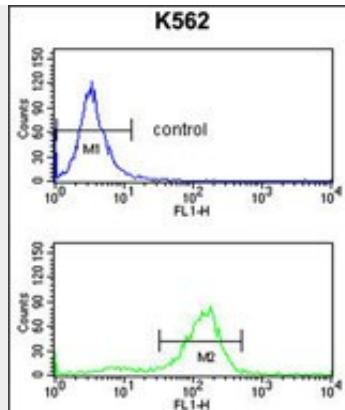
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SDS Antibody (N-term) - Images



Western blot analysis of SDS Antibody (N-term) (Cat. #AP9041a) in K562 cell line lysates (35ug/lane). SDS (arrow) was detected using the purified Pab.



SDS Antibody (N-term) (Cat. #AP9041a) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

SDS Antibody (N-term) - Background

SDS 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 NH_4^+ and 2-ketobutyrate. The encoded protein is found predominantly in the liver.

SDS Antibody (N-term) - References

Yamada, T., et al., Biochim. Biophys. Acta 1780 (5), 809-818 (2008)
Szaflik, J.P., et al., Exp. Eye Res. 86 (4), 647-652 (2008)