

Human SBDS antibody

Catalog Number: ATGA0231

PRODUCT INFORMATION

Catalog number

ATGA0231

Clone No.

AT1E8

Product type

Monoclonal Antibody

UnitProt No.

Q9Y3A5

NCBI Accession No.

NP_057122

Alternative Names

Ribosome maturation protein SBDS, CGI-97, SDS, SWDS

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human SBDS (1-250aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

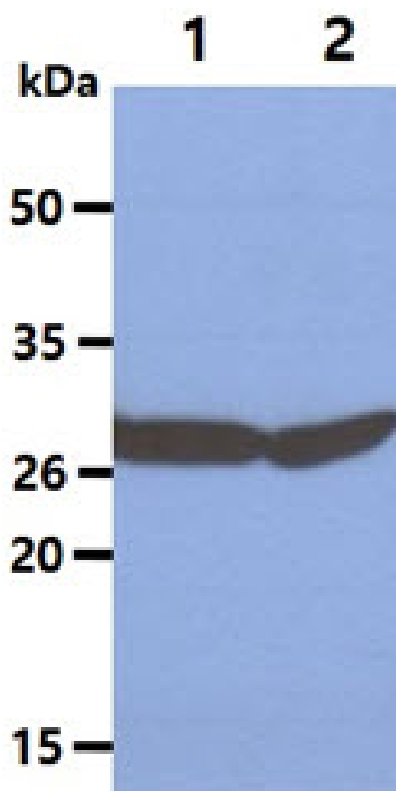
The Shwachman-Bodian-Diamond syndrome (SBDS) is 249 amino acid ribosome maturation protein. The precise function of the SBDS protein is not known but it appears to play an important role in actin cytoskeletal function and mitotic spindle stabilization. Also, SBDS is required for the assembly of mature ribosomes and ribosome biogenesis. Mutations in the SBDS gene cause Shwachman-Diamond syndrome (SDS). SDS is an autosomal recessive disorder with clinical features that include pancreatic exocrine insufficiency, haematological dysfunction and skeletal abnormalities.

General References

Boocock G.R., et al. (2003) Nat Genet 33(1): 97-101.
Orelia C., et al. (2011) PLoS ONE 6(6): e20727.
Savchenko., et al. (2005) J Biol Chem 280(19): 19213-20.

DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SBDS antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

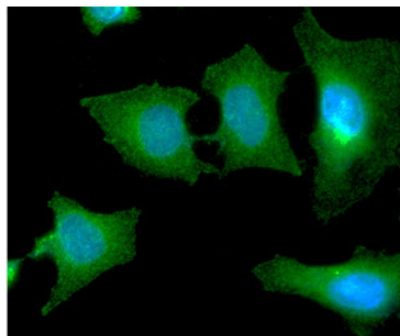
Lane 1.: 293T cell lysate

Lane 2.: HeLa cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of SBDS in HeLa cells. The cell was stained with ATGA0231 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).