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# **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**

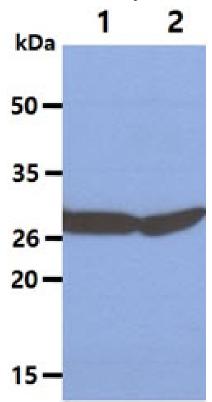
The Shwachman-Bodian-Diamond syndrome (SBDS) is 249 amino acid ribosome maturation protein. The precise function of the SBDS protein is not known but it appears to play an important role in actin cytoskeletal function and mitotic spindle stabilization. Also, SBDS is required for the assembly of mature 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. Orelio 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

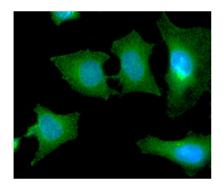
Immunocytochemistry/Immunofluorescence (ICC/IF)



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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).

