

---

**Product Name: KD-Validated SBDS Ribosome Maturation Factor Recombinant Rabbit Monoclonal Antibody****Catalog #: KVA01343**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC,IHC-P                                                            |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200 |
| <b>Molecular Weight</b> | Calculated MW: 28.8kDa                                                     |

**Antigen Information**

|                          |                                                                                                                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | SBDS                                                                                                                                                                                                                                                 |
| <b>Alternative Names</b> | SBDS; SBDS Ribosome Maturation Factor; CGI-97; SWDS; SDO1; SDS; SBDS, Ribosome Assembly Guanine Nucleotide Exchange Factor; Ribosome Maturation Protein SBDS; FLJ10917; Shwachman-Bodian-Diamond Syndrome Protein; Shwachman-Bodian-Diamond Syndrome |
| <b>Gene ID</b>           | 51119.0                                                                                                                                                                                                                                              |
| <b>SwissProt ID</b>      | Q9Y3A5                                                                                                                                                                                                                                               |
| <b>Immunogen</b>         | A synthesized peptide derived from human SBDS                                                                                                                                                                                                        |

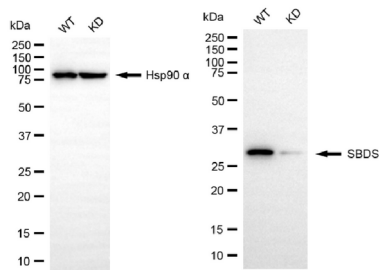
**Background**

This gene encodes a highly conserved protein that plays an essential role in ribosome biogenesis. The encoded protein interacts with elongation factor-like GTPase 1 to disassociate eukaryotic initiation factor 6 from the late cytoplasmic pre-60S ribosomal subunit allowing assembly of the 80S subunit. Mutations within this gene are associated with the autosomal recessive disorder Shwachman-Bodian-Diamond syndrome. This gene has a closely linked pseudogene that is distally located. [provided by RefSeq, Jan 2017]

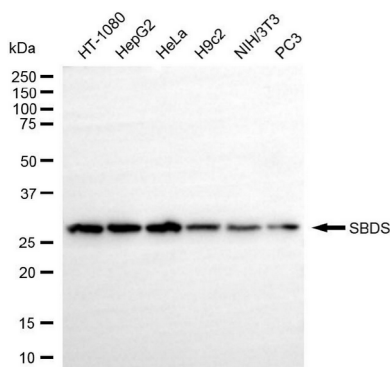
## Research Area

Epigenetics and Nuclear Signaling

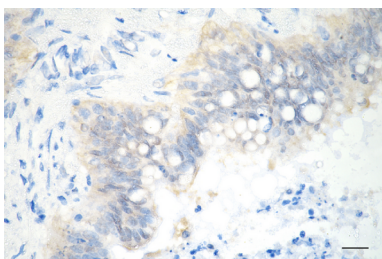
## Image Data



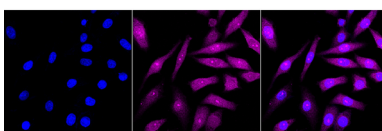
Western blotting analysis using SBDS antibody (KVA01343). SBDS expression in wild-type (WT) and SBDS knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with SBDS antibody (KVA01343, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



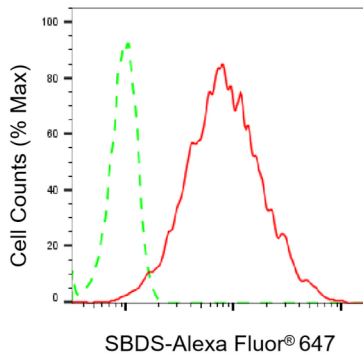
Western blotting analysis using SBDS antibody (KVA01343). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SBDS antibody (KVA01343, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human pancreatic adenocarcinoma using SBDS antibody (KVA01343, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HepG2 cells with SBDS antibody (KVA01343, 1:1,000). Nuclei were stained blue with DAPI; SBDS was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of SBDS expression in HepG2 cells using SBDS antibody (KVA01343, 1:2,000). Green, isotype control; red, SBDS.