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SBDS antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12611

Specification

SBDS antibody - N-terminal region - Product Information

Application	**IHC, WB**
Primary Accession	Q9Y3A5
Other Accession	NM_016038, NP_057122
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Zebrafish, Pig, Chicken, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**28kDa KDa**

SBDS antibody - N-terminal region - Additional Information

Gene ID 51119

Alias Symbol	**CGI-97, FLJ10917, SDS, SWDS**

Other Names
Ribosome maturation protein SBDS, Shwachman-Bodian-Diamond syndrome protein, SBDS

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 100 ul of distilled water. Final anti-SBDS antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
SBDS antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

SBDS antibody - N-terminal region - Protein Information

Name SBDS

Function
Required for the assembly of mature ribosomes and ribosome biogenesis. Together with EFL1, triggers the GTP-dependent release of EIF6 from 60S pre-ribosomes in the cytoplasm, thereby activating ribosomes for translation competence by allowing 80S ribosome assembly and facilitating EIF6 recycling to the nucleus, where it is required for 60S rRNA processing and nuclear export. Required for normal levels of protein synthesis. May play a role in cellular stress resistance. May play a role in cellular response to DNA damage. May play a role in cell proliferation.

Cellular Location
Cytoplasm. Nucleus, nucleolus. Nucleus, nucleoplasm. Cytoplasm, cytoskeleton, spindle. Note=Primarily detected in the cytoplasm, and at low levels in nucleus and nucleolus (PubMed:19602484, PubMed:17475909). Detected in the nucleolus during G1 and G2 phase of the cell cycle, and diffusely distributed in the nucleus during S phase. Detected at the mitotic spindle. Colocalizes with the microtubule organizing center during interphase (PubMed:19759903).

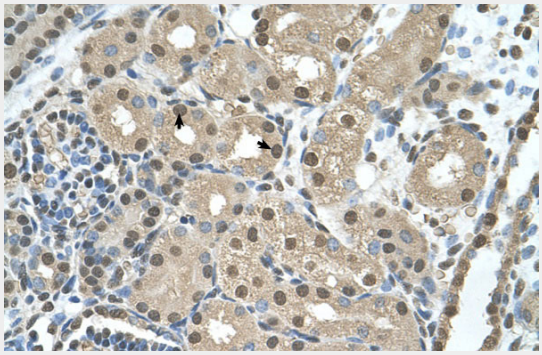
Tissue Location
Widely expressed.

SBDS antibody - N-terminal region - Protocols

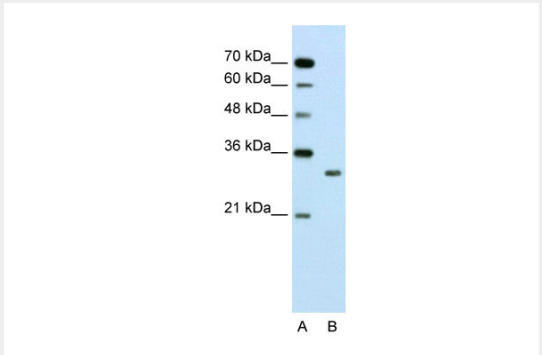
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SBDS antibody - N-terminal region - Images



Human kidney



WB Suggested Anti-SBDS Antibody Titration: 2.5µg/ml
Positive Control: Jurkat cell lysate

SBDS antibody - N-terminal region - References

Austin,K.M.,(2005)Blood106(4),1253-1258ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.Publications:Sezgin,G.etal.Impairedgrowth,hematopoieticcolonyformation,andribosomematurationinhumancellsdepletedofShwachman-DiamondsyndromeproteinSBDS.Pediatr.BloodCancer60,281-6(2013).WB,Dog,Pig,Mouse,Horse,Human,Guineapig,Bovine,Rat,Rabbit,Zebrafish22997148