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KD-Validated Anti-SLBP Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2267

Product Information

Application	WB
Primary Accession	Q14493
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB4485
Calculated MW	31286
Gene Name	SLBP
Aliases	SLBP; Stem-Loop Histone MRNA Binding Protein; HBP; Stem-Loop (Histone) Binding Protein; Histone RNA Hairpin-Binding Protein; Stem-Loop Binding Protein; Histone Binding Protein; Histone Stem-Loop Binding Protein; Histone Stem-Loop-Binding Protein; Hairpin Binding Protein, Histone
Immunogen	A synthesized peptide derived from human SLBP

Additional Information

Gene ID	7884
Other Names	Histone RNA hairpin-binding protein, Histone stem-loop-binding protein, SLBP, HBP

Protein Information

Name	SLBP
Synonyms	HBP
Function	RNA-binding protein involved in the histone pre-mRNA processing (PubMed:12588979, PubMed:19155325, PubMed:8957003, PubMed:9049306). Binds the stem-loop structure of replication-dependent histone pre-mRNAs and contributes to efficient 3'-end processing by stabilizing the complex between histone pre-mRNA and U7 small nuclear ribonucleoprotein (snRNP), via the histone downstream element (HDE) (PubMed:12588979, PubMed:19155325, PubMed:8957003, PubMed:9049306). Plays an important role in targeting mature histone mRNA from the nucleus to the cytoplasm and to the translation machinery (PubMed:12588979, PubMed:19155325, PubMed:8957003, PubMed:9049306). Stabilizes mature histone mRNA and could be involved in cell-cycle regulation of histone gene expression (PubMed:12588979, PubMed:19155325, PubMed:8957003, PubMed:9049306). Involved in the mechanism by which growing oocytes accumulate histone proteins that support early embryogenesis (By similarity). Binds to the 5' side of the stem-loop structure of histone pre-mRNAs (By similarity).

Cellular Location	Cytoplasm. Nucleus. Note=Polyribosome-associated (PubMed:12588979). Localizes predominantly in the nucleus at the G1/G2 phases and the beginning of S phase (PubMed:12588979). Through the S phase, partially redistributes to the cytoplasm (PubMed:12588979) Binding to histone mRNA is necessary for cytoplasmic localization (PubMed:12588979). Shuttles between the nucleus and the cytoplasm (PubMed:15829567). Imported in the nucleus by the Importin alpha/Importin beta receptor (PubMed:15829567)
Tissue Location	Widely expressed..

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