

SLBP peptide ab108380

描述

产品名称	SLBP多肽
无动物成分	No
性质	Synthetic
序列	INYGKNTIAYDRYIKEVPRHLRQPGIHPKTPNKFKKYSRRSW DQQIKLWK
预测分子量	30 kDa

技术指标

Our **Abpromise guarantee** covers the use of **ab108380** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Blocking
形式	Liquid

制备和贮存

稳定性和存储	Shipped at 4°C. Store at -20°C. Constituent: Water
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常规信息

功能	RNA-binding protein involved in the histone pre-mRNA processing. 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). Plays an important role in targeting mature histone mRNA from the nucleus to the cytoplasm and to the translation machinery. Stabilizes mature histone mRNA and could be involved in cell-cycle regulation of histone gene expression. Involved in the mechanism by which growing oocytes accumulate histone proteins that support early embryogenesis. Binds to the 5' side of the stem-loop structure of histone pre-mRNAs.
组织特异性	Widely expressed.
序列相似性	Belongs to the SLBP family.
发展阶段	Regulated during the cell cycle: protein levels increase 10 to 20 fold in the late G1 and decrease

at the S/G2 border.

结构域

Amino acids 31-34, 96-99 and 241-244 are necessary for interaction with the Importin alpha/Importin beta receptor. The first 18 amino acids, amino acids 69-76 and 179-182 are necessary for interaction with TNPO3. Amino acids 31-34, 96-99 and 241-244 are necessary for nuclear localization.

翻译后修饰

Phosphorylated on Thr-61 and Thr-62 in the S-phase. Phosphorylation of Thr-62 by CDK1 primes phosphorylation of Thr-61 by CK2. Phosphorylation of Thr-62 is required for its degradation by the proteasome at the end of the S phase. Its degradation is not required for histone mRNA degradation at the end of the S phase. All the phosphorylated forms detected are present in the cytoplasm. Both unphosphorylated and phosphorylated forms bind the stem-loop structure of histone mRNAs.

细胞定位

Cytoplasm. Nucleus. Polyribosome-associated. Localizes predominantly in the nucleus at the G1/G2 phases and the beginning of S phase. Through the S phase, partially redistributes to the cytoplasm. Binding to histone mRNA is necessary for cytoplasmic localization. Shuttles between the nucleus and the cytoplasm. Imported in the nucleus by the Importin alpha/Importin beta receptor.

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