

SLU7 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51824

Product Information

Application	WB
Primary Accession	O95391
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68387

Additional Information

Gene ID	10569
Other Names	Pre-mRNA-splicing factor SLU7, hSlu7, SLU7
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	SLU7
Function	Required for pre-mRNA splicing as component of the spliceosome (PubMed: 10197984 , PubMed: 28502770 , PubMed: 30705154). Participates in the second catalytic step of pre-mRNA splicing, when the free hydroxyl group of exon I attacks the 3'-splice site to generate spliced mRNA and the excised lariat intron. Required for holding exon 1 properly in the spliceosome and for correct AG identification when more than one possible AG exists in 3'-splicing site region. May be involved in the activation of proximal AG. Probably also involved in alternative splicing regulation.
Cellular Location	Nucleus. Nucleus speckle. Cytoplasm Note=Predominantly nuclear. Shuttling between the nucleus and the cytoplasm is regulated by the CCHC-type zinc finger. Upon UV-C stress stimulus, the nuclear concentration of the protein decreases, affecting alternative splicing. Translocates from the nucleus to the cytoplasm after heat shock cell treatment. Accumulates in cytoplasmic vesicle-like organelles after heat shock treatment, which may represent stress granules.

Background

Participates in the second catalytic step of pre-mRNA splicing, when the free hydroxyl group of exon I attacks the 3'- splice site to generate spliced mRNA and the excised lariat intron. Required for holding exon 1 properly in the spliceosome and for correct AG identification when more than one possible AG exists in 3'-splicing site region. May be involved in the activation of proximal AG. Probably also involved in alternative splicing regulation.

References

Chua K.,et al.Genes Dev. 13:841-850(1999).
Schmutz J.,et al.Nature 431:268-274(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Holste D.,et al.Submitted (AUG-2005) to the EMBL/GenBank/DDBJ databases.
Chua K.,et al.Nature 402:207-210(1999).

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