SLU7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLU7, Polyclonal Antibody
Full Product Name	SLU7 Antibody, FITC conjugated
Product Gene Name	anti-SLU7 antibody
Product Synonym Names	Pre-mRNA-splicing factor SLU7; hSlu7; SLU7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: SLU7 (MBS7049176) FITC Conjugated Antibody: SLU7 (MBS7049178)
Molecular Weight	68,387 Da
OMIM	AF101074 mRNA
3D Structure	ModBase 3D Structure for O95391
Immunogen	Recombinant Human Pre-mRNA-splicing factor SLU7 protein (138-310AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	FITC
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-10828 / sc-10829 / sc-10831 / sc-292633 / sc-365660
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLU7 antibody	ELISA (EIA)
Related Product Information for anti-SLU7 antibody	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.
Other Notes	Small volumes of anti-SLU7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLU7 purchase	MBS7049178 is an antibody targeting SLU7. Also known as SLU7 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLU7. It may not necessarily be applicable to this product.

NCBI GI #	27477111
NCBI GeneID	10569
NCBI Accession #	NP_006416.3
UniProt Primary Accession #	O95391
UniProt Secondary Accession #	Q3LUJ0; Q3LUJ1; Q6RXQ5; Q96FM9; D3DQK2
UniProt Related Accession #	O95391
GenBank Nucleotide #	NM_006425.4
NCBI Official Full Name	pre-mRNA-splicing factor SLU7
NCBI Official Synonym Full Names	SLU7 homolog, splicing factor
NCBI Official Symbol	SLU7
NCBI Official Synonym Symbols	9G8; hSlu7
UniProt Protein Name	Pre-mRNA-splicing factor SLU7
Protein Family	Pre-mRNA-splicing factor
UniProt Gene Name	SLU7
UniProt Synonym Gene Names	hSlu7
UniProt Entry Name	SLU7_HUMAN
NCBI Protein Information	pre-mRNA-splicing factor SLU7
NCBI Summary for SLU7	Pre-mRNA splicing occurs in two sequential transesterification steps. The protein encoded by this gene is a splicing factor that has been found to be essential during the second catalytic step in the pre-mRNA splicing process. It associates with the spliceosome and contains a zinc knuckle motif that is found in other splicing factors and is involved in protein-nucleic acid and protein-protein interactions. [provided by RefSeq, Jul 2008]
UniProt Comments for SLU7	SLU7: 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. Belongs to the SLU7 family. Protein type: RNA processing; RNA splicing; Spliceosome Chromosomal Location of Human Ortholog: 5q33.3 Cellular Component: cytoplasm; intracellular membrane-bound organelle; membrane; nuclear speck; nucleoplasm; nucleus; small nuclear ribonucleoprotein complex; spliceosome Molecular Function: pre-mRNA 3'-splice site binding; protein binding; second spliceosomal transesterification activity; zinc ion binding Biological Process: alternative nuclear mRNA splicing, via spliceosome; intracellular protein transport; mRNA 3'-end processing; mRNA export from nucleus; nuclear mRNA 3'-splice site recognition; nuclear mRNA splicing, via spliceosome; RNA export from nucleus; RNA splicing, via transesterification reactions; termination of RNA polymerase II transcription
Research Articles on SLU7	**1.** SLU7 knockdown in liver cells resulted in profound changes in pre-mRNA splicing and gene expression, leading to impaired glucose and lipid metabolism, refractoriness to key metabolic hormones, and reversion to a fetal-like gene expression pattern.

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