

## LSM10 Conjugated Antibody

Catalog No: #C47271



Package Size: #C47271-AF350 100ul #C47271-AF405 100ul #C47271-AF488 100ul  
 #C47271-AF555 100ul #C47271-AF594 100ul #C47271-AF647 100ul  
 #C47271-AF680 100ul #C47271-AF750 100ul #C47271-Biotin 100ul

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## Description

Product Name	LSM10 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu, Ms
Specificity	The antibody detects endogenous levels of total LSM10 protein.
Immunogen Description	Fusion protein of human LSM10
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	MST074; MSTP074
Accession No.	Swiss-Prot#:Q969L4NCBI Gene ID:84967NCBI Protein#:BC007623
Uniprot	Q969L4
GeneID	84967;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

## Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## Background

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LSm10 (U7 snRNA-associated Sm-like protein LSm10) is a nuclear protein that belongs to the snRNP (small nuclear ribonucleoproteins) Sm protein family. The survival of motor neurons (SMN) complex mediates the assembly of snRNPs involved in splicing and histone RNA processing. A crucial step in this process is the binding of Sm proteins onto the SMN protein. LSm10 and LSm11, mammalian homologs of the yeast Sm proteins D1 and D2, are important for U7 snRNP function and subcellular localization. U7 snRNP is an RNA molecule involved in the splicing of animal histone pre-mRNAs. Lsm10 and Lsm11 also associate with pICln (Chloride ion current inducer protein), which interacts with Sm proteins to inhibit their assembly on U RNA. LSm10 interactions with U7 snRNA and pICln may provide the means for using modified U7 snRNA derivatives to alter specific pre-mRNA splicing events, potentially leading to advances in antisense gene therapy.

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Note: This product is for in vitro research use only