

Technical Data Sheet

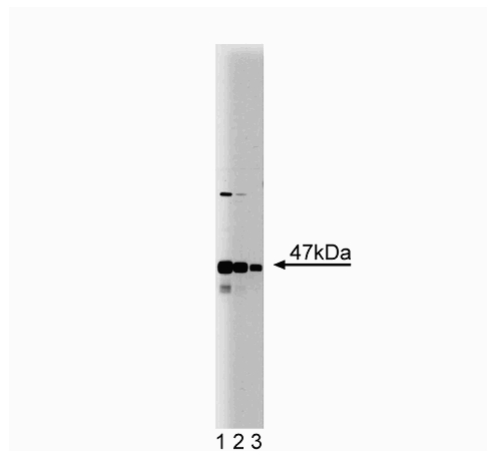
Purified Mouse Anti-La Protein

Product Information

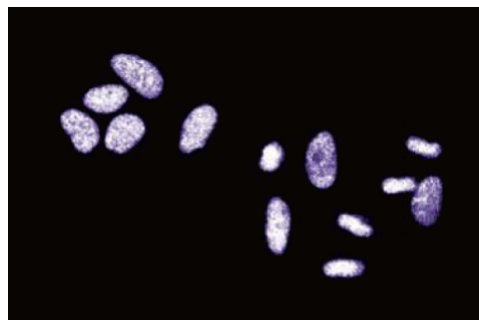
Material Number:	610905
Size:	150 µg
Concentration:	250 µg/ml
Clone:	44/La Protein
Immunogen:	Human La Protein aa. 179-289
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog, Rabbit, Rat
Target MW:	47 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

La was first found to bind autoantibodies from individuals with Sjogren's syndrome and systemic lupus erythematosus (SLE). La is a transcription factor for RNA polymerase III (Pol III). It participates in the termination of Pol III-mediated transcription and the recycling of the transcriptional machinery. La associates with the 3' oligo U portion of transcripts generated by Pol III. In some cases, this association protects the message from 3' processing. The association of La and mRNA is mediated by the presence of an N-terminal ribonucleoprotein (RNP) consensus sequence in La. The La protein also binds several small RNAs, such as 7S RNA, 5S RNA, and tRNA, and is thought to be involved in their biogenesis. It is known that histone mRNA is stabilized throughout S Phase and is degraded only at the end of S phase. La protein participates in the stabilization of histone mRNA which results in increased production of histone protein. These data suggest that a major function of La is to protect vital nascent transcripts from premature degradation.



Western blot analysis of La Protein on HCT-8 cell lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of anti-La Protein antibody.



Immunofluorescent staining of HeLa cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml .

Suggested Companion Products

Catalog Number	Name	Size	Clone
611474	HCT-8 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Chambers JC, Kenan D, Martin BJ, Keene JD. Genomic structure and amino acid sequence domains of the human La autoantigen. *J Biol Chem.* 1988; 263(34):18043-18051.(Biology)
Goodier JL, Fan H, Maraia RJ. A carboxy-terminal basic region controls RNA polymerase III transcription factor activity of human La protein. *Mol Cell Biol.* 1997; 17(10):5823-5832.(Biology)
McLaren RS, Caruccio N, Ross J. Human La protein: a stabilizer of histone mRNA. *Mol Cell Biol.* 1997; 17(6):3028-3036.(Biology)