

#5034 Store at -20°C

## La Antigen (D19B3) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	50	Rabbit IgG	#P05455	6741

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

La Antigen (D19B3) Rabbit mAb detects endogenous levels of total La Antigen protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu97 of human La Antigen protein.

### Background

La antigen is recognized by antibodies in patients with autoimmune disorders such as systemic lupus erythematosus and Sjögren's syndrome (1). La antigen binds to the 5'-noncoding region of poliovirus RNA and is an IRES trans-acting factor (1,2). Depletion of La antigen reduces the function of poliovirus IRES *in vivo* (3). La antigen, when phosphorylated at Ser366, has been shown to associate with nuclear precursor tRNAs and facilitate their processing (4). The nonphosphorylated La antigen interacts with the mRNAs that have 5'-terminal oligopyrimidine (5'TOP) motifs to control protein synthesis (4).

### Background References

1. Meerovitch, K. et al. (1993) *J Virol* 67, 3798-807.
2. Meerovitch, K. et al. (1989) *Genes Dev* 3, 1026-34.
3. Costa-Mattioli, M. et al. (2004) *Mol Cell Biol* 24, 6861-70.
4. Intine, R.V. et al. (2003) *Mol Cell* 12, 1301-7.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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