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## La Antigen (D19B3) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

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

**W:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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