

Store at  
-20C  
#70180**LARP1 (D8J4F) Rabbit mAb**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, eCLIP	H Mk	Endogenous	150	Rabbit IgG	#Q6PKG0	23367

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
eCLIP

**Dilution**

1:1000  
1:50  
1:200

For more information about the RBP-eCLIP service please visit Eclipsebio.

**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**

LARP1 (D8J4F) Rabbit mAb recognizes endogenous levels of total LARP1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human LARP1 protein.

**Background**

La-related protein 1 (LARP1) is a ubiquitously expressed RNA binding protein that promotes both global and specific mRNA translation in cells (1). LARP1 belongs to the La-related protein family and contains two RNA binding domains, a La motif (LAM), and a neighboring RNA recognition motif-like (RRM-L) domain (1). Research studies indicate that LARP1 acts downstream of mTORC1 to facilitate cell proliferation and growth by promoting global mRNA translation and translation of mRNAs containing a 5'Terminal Oligo-Pyrimidine (5'TOP) motif, which code for translational machinery components (2,3). At the molecular level, LARP1 associates with 5'TOP mRNAs and multiple translation machinery components to positively regulate translation (2,4). Additional studies show that LARP1 expression is upregulated in hepatocellular carcinoma (HCC) patients and that high LARP1 expression in HCC negatively correlates with survival rate (5).

**Background References**

1. Bayfield, M.A. et al. (2010) *Biochim Biophys Acta* 1799, 365-78.
2. Tcherkezian, J. et al. (2014) *Genes Dev* 28, 357-71.
3. Burrows, C. et al. (2010) *Nucleic Acids Res* 38, 5542-53.
4. Aoki, K. et al. (2013) *FEBS Lett* 587, 2173-8.
5. Xie, C. et al. (2013) *J Transl Med* 11, 272.

**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 **eCLIP:** eCLIP

**Cross-Reactivity Key**

**H:** Human **Mk:** Monkey

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