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# New Item New Item

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## Antibodies to RNA binding Proteins

### Anti-La Ribonucleoprotein domain family member 7 (LARP7/HDCMA) Antibodies (Cat # LARP7-101AP)

In eukaryotic cells, RNA-binding proteins (RBPs) contribute to gene expression by regulating the form, abundance, and stability of both coding and non-coding RNAs. In the vertebrate brain, RBPs account for many distinctive features of RNA processing such as activity-dependent transcript localization and localized protein synthesis. There are 380 putative RBPs in the mouse genome that are identified, at least 323 of them are expressed in embryonic age 13.5 and post natal age 0 when critical signals are required for development of major structural differentiation. Sixteen out of 323 genes are neuronal specific and majority of these genes (221 out of 323) exhibit regionally restricted expression (1). The initiation of human embryo implantation process resulted in expression of a large number of RBPs that are derived from extra-embryonic cells. These genes are under tight control of expression during development.

One of these several genes is La ribonucleoprotein domain family member 7 (LaRP7). These proteins are expressed in embryonic ovary testis and brain. LaRP is expressed in testis of adult sex-reversed mice which lack the germ cell and therefore represent a meiosis-specific gene. It is part of the mouse multigene family, member of which are mapped to a single region of the X-chromosome. The LaRP7 contains several function domains including a domain in the RNA binding Lupus La protein of unknown function, a RNA recognition motif (RRM) which is diagnostic to the RNA binding protein and a LHP1 domain which is binding site for small RNA-RNA polymerase III transcript stabilizing protein and related La-motif-containing proteins involved in translation. The HDCMA18P is similar to LARP family member 7 protein from amino acid 382-595, it represents only the lower 50% of LARP7 protein of various variants.

The LARP7/HDCMA-selective antibodies were generated using a peptide from the LARP family member 7 protein. The antibodies LARP7 are affinity purified over immobilized antigen based chromatography, and the purified immunoglobulins are stabilized in antibody stabilization buffer. FabGennix Int. Inc., will also provide limited quantities of antigenic blocking peptides for LARP7 antibodies. FabGennix International Inc. also carries a number of antibodies to RNA binding protein, for a complete listing visit [www.FabGennix.com](http://www.FabGennix.com). FabGennix Inc. will also conjugate antibodies with fluorescent probes upon request at a reasonable cost.

Catalog #	Host Species	Nature	Cross reactivity	Quantity	volume
LARP7-101AP	Rabbit	Affinity purified LARP7/HDCMA18P antibodies	H, M	100 ug	175-200ul
P-LARP7	Rabbit	Antigenic blocking peptide for LARP7-101AP	n/a	100 ug	100ul
PC-LARP7	Rabbit	Western blot positive control for LARP7	n/a	100 ug	for 5 appl

R = rat; M = mouse; H = human; C = chicken; monk = monkey ; \* not all variants are labeled equally

**Immunogen:** Synthetic peptides corresponding to positions LARP7: The peptide sequence (c-eev ipl rvl sks ewm dlk ke) corresponding to position 384-403 from LARP family member 7 isoform 11. This sequence is conserved in several other variants of the LARP7 family member.

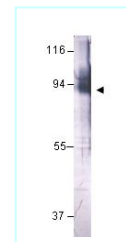
**Concentration:** LARP7-101AP: IgG concentration 0.94-1.25 mg/ml in antibody stabilization buffer.

**Applications:** Antibody LARP7-101AP is ideal for WB application; other applications have not been tested. The species cross reactivity for this antibody is not established. The dilutions for this antibody is for reference only, investigators are expected to determine the optimal conditions for specific assay. WB: > 1:450; IMM & i.p pull-down assays: n.d; IHC n.d.

**Reactivity:** This antibody detects 3 bands between 78-43kDa range in Western blot positive control (Cat # PC-LARP7) samples. The antibody does not cross reacts with other proteins in the sample tested.

**Protocols:** Standard protocol for various applications (WB; IMM and IHC) of this antibody is provided with the product specification sheet, however, FabGennix Inc. strongly recommends investigators to optimize conditions for use of this antibody in their laboratories.

**Form/Storage:** The antiserum is supplied in antibody stabilization buffer. The affinity-purified antibodies are isolated on immobilized antigen-affinity column and supplied as stabilized product. Store at -20°C for long-term storage. FabGennix Inc. does not recommend storage of very dilute antibody solutions unless they are prepared in specially formulated multi use antibody dilution buffer (Cat # DiluOBuffer). Working solutions of antibodies in DiluOBuffer should be filtered through 0.45 µm filter after every use for long-term storage.



Western Blot of LARP7-101AP with PC-LARP7. antibody dilution (1:500) in diluOBuffer. MWM are indicated on left.

### References:

1. McKee AE, Minet E, Stern C, Riahi S, Stiles CD, Silver PA. A genome-wide in situ hybridization map of RNA-binding proteins reveals anatomically restricted expression in the developing mouse brain. *BMC Dev Biol.* 2005 Jul 20;5:14.
2. Ko MS, Threat TA, Wang X, Horton JH, Cui Y, Wang X, Pryor E, Paris J, Wells-Smith J, Kitchen JR, Rowe LB, Eppig J, Satoh T, Brant L, Fujiwara H, Yotsumoto S, Nakashima H. Genome-wide mapping of unselected transcripts from extraembryonic tissue of 7.5-day mouse embryos reveals enrichment in the t-complex and under-representation on the X chromosome. *Hum Mol Genet.* 1998 Nov;7(12):1967-78.
3. Kerr SM, Taggart MH, Lee M, Cooke HJ, Ott, a mouse X-linked multigene family expressed specifically during meiosis. *Hum Mol Genet.* 1996 Aug;5(8):1139-48.

For users who may require large amounts of LARP7-101AP, please enquire about bulk material discounts.  
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.

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