

#12582 Store at -20C

**ELAVL1/HuR (D9W7E) Rabbit mAb****Cell Signaling**  
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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:
WB, IP, IF-IC, FC-FP	H M R Mk	Endogenous	30	Rabbit IgG	#Q15717	1994

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

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)

**Dilution**

1:1000  
1:50  
1:50  
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**

ELAVL1/HuR (D9W7E) Rabbit mAb recognizes endogenous levels of total ELAVL1/HuR protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His201 of human ELAVL1/HuR protein.

**Background**

The ELAVL (embryonic lethal, abnormal vision and Drosophila-like) family of proteins includes ELAVL1/HuR, ELAVL2/HuB, ELAVL3/HuC and ELAVL4/HuD (1). ELAVL1/HuR is ubiquitously expressed whereas expression of the other three members is neuronal-specific (1). ELAVL/Hu proteins are highly conserved RNA-binding proteins (1). Besides three RNA recognition motifs, these proteins also contain nuclear localization signals that enable them to shuttle between nucleus and cytoplasm (2). Upon inhibition of transcription by actinomycin D, ELAVL1/HuR relocates from nucleus to cytoplasm where it binds the AU-rich elements within 3' UTRs to stabilize mRNAs (3, 4). ELAVL1/HuR is suggested to increase translation by binding to mRNAs (5,6). In addition, ELAVL1/HuR interacts with microRNAs (miRNAs) (7).

**Background References**

1. Izquierdo, J.M. (2008) *J Biol Chem* 283, 19077-84.
2. Fan, X.C. and Steitz, J.A. (1998) *Proc Natl Acad Sci U S A* 95, 15293-8.
3. Peng, S.S. et al. (1998) *EMBO J* 17, 3461-70.
4. Brennan, C.M. and Steitz, J.A. (2001) *Cell Mol Life Sci* 58, 266-77.
5. Mazan-Mamczarz, K. et al. (2003) *Proc Natl Acad Sci U S A* 100, 8354-9.
6. Lal, A. et al. (2005) *EMBO J* 24, 1852-62.
7. Lebedeva, S. et al. (2011) *Mol Cell* 43, 340-52.

**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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**WB:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)  
**FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**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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