

Store at
-20C
#12582**ELAVL1/HuR (D9W7E) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, 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.

For a carrier free (BSA and azide free) version of this product see product #66006.

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

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

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

Cross-Reactivity Key

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

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