

KD-Validated Anti-HuR / ELAVL1 Rabbit Monoclonal Antibody Rabbit monoclonal antibody Catalog # AGI1542

Specification

KD-Validated Anti-HuR / ELAVL1 Rabbit Monoclonal Antibody - Product Information

Application	WR EC
	WD, FC
Primary Accession	<u>Q15/1/</u>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 36 kDa, observed, 30 kDa KDa
Gene Name	ELAVL1
Aliases	ELAVL1; ELAV Like RNA Binding Protein 1;
	HUR; ELAV (Embryonic Lethal,
	Antibodynormal Vision, Drosophila)-Like 1
	(Hu Antigen R); Embryonic Lethal,
	Antibodynormal Vision, Drosophila,
	Homolog-Like 1; ELAV-Like Protein 1; Hu
	Antigen R; Hu-Antigen R; MelG; HuR; Hua;
	ELAV1; MELG; HUA
Immunogen	A synthesized peptide derived from human
5	HuR / ELAVL1

KD-Validated Anti-HuR / ELAVL1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 1994 Other Names ELAV-like protein 1, Hu-antigen R, HuR, ELAVL1, HUR

KD-Validated Anti-HuR / ELAVL1 Rabbit Monoclonal Antibody - Protein Information

Name ELAVL1

Synonyms HUR

Function

RNA-binding protein that binds to the 3'-UTR region of mRNAs and increases their stability (PubMed:14517288, PubMed:14517288, PubMed:18285462, PubMed:31358969). Involved in embryonic stem cell (ESC) differentiation: preferentially binds mRNAs that are not methylated by N6-methyladenosine (m6A), stabilizing them, promoting ESC differentiation (By similarity). Has also been shown to be capable of binding to m6A-containing mRNAs and contributes to MYC stability by binding to m6A-containing MYC mRNAs (PubMed:32245947). Binds to poly-U elements and AU-rich elements (AREs) in the 3'-UTR of target mRNAs (PubMed:14731398, PubMed:<a



href="http://www.uniprot.org/citations/17632515" target="_blank">17632515, PubMed:18285462, PubMed:23519412, PubMed:8626503). Binds avidly to the AU-rich element in FOS and IL3/interleukin-3 mRNAs. In the case of the FOS AU-rich element, binds to a core element of 27 nucleotides that contain AUUUA, AUUUUA, and AUUUUUA motifs. Binds preferentially to the 5'-UUUU[AG]UUU-3' motif in vitro (PubMed:8626503). With ZNF385A, binds the 3'-UTR of p53/TP53 mRNA to control their nuclear export induced by CDKN2A. Hence, may regulate p53/TP53 expression and mediate in part the CDKN2A anti-proliferative activity. May also bind with ZNF385A the CCNB1 mRNA (By similarity). Increases the stability of the leptin mRNA harboring an AU-rich element (ARE) in its 3' UTR (PubMed:29180010).

Cellular Location

Cytoplasm. Nucleus. Cytoplasm, Stress granule {ECO:0000250|UniProtKB:P70372}. Cytoplasm, P-body. Note=Translocates into the cytoplasm following phosphorylation by MAPKAPK2 (PubMed:14517288). Likewise, phosphorylation by PRKCD promotes translocation from the nucleus into the cytoplasm, where it is associated with free and cytoskeleton-bound polysomes (PubMed:18285462). Localizes to the stress granules in the presence of PLEKHN1 (By similarity). {ECO:0000250|UniProtKB:P70372, ECO:0000269|PubMed:14517288, ECO:0000269|PubMed:18285462}

Tissue Location

Ubiquitous. Detected in brain, liver, thymus and muscle.

KD-Validated Anti-HuR / ELAVL1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

KD-Validated Anti-HuR / ELAVL1 Rabbit Monoclonal Antibody - Images





Western blotting analysis using anti-ELAVL1 antibody (Cat#AGI1542). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ELAVL1 antibody (Cat#AGI1542, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti- ELAVL1 antibody (Cat#AGI1542). ELAVL1 expression in wild type (WT) and ELAVL1 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti- ELAVL1 antibody (Cat#AGI1542, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of ELAVL1 expression in HepG2 cells using ELAVL1 antibody (Cat#AGI1542, 1:2,000). Green, isotype control; red, ELAVL1.