

[25106868](http://www.uniprot.org/citations/25106868), PubMed: [25014217](http://www.uniprot.org/citations/25014217), PubMed: [26542173](http://www.uniprot.org/citations/26542173)). Acts as a 3'-untranslated region (UTR) ARE mRNA- binding adapter protein to communicate signaling events to the mRNA decay machinery (PubMed: [15687258](http://www.uniprot.org/citations/15687258)). Functions by recruiting the CCR4-NOT deadenylase complex and components of the cytoplasmic RNA decay machinery to the bound ARE-containing mRNAs, and hence promotes ARE- mediated mRNA deadenylation and decay processes (PubMed: [15687258](http://www.uniprot.org/citations/15687258), PubMed: [18326031](http://www.uniprot.org/citations/18326031), PubMed: [25106868](http://www.uniprot.org/citations/25106868)). Induces also the degradation of ARE- containing mRNAs even in absence of poly(A) tail (By similarity). Binds to 3'-UTR ARE of numerous mRNAs (PubMed: [12198173](http://www.uniprot.org/citations/12198173) target="_blank">12198173, PubMed: [15538381](http://www.uniprot.org/citations/15538381) target="_blank">15538381, PubMed: [15467755](http://www.uniprot.org/citations/15467755) target="_blank">15467755, PubMed: [17030608](http://www.uniprot.org/citations/17030608) target="_blank">17030608, PubMed: [19179481](http://www.uniprot.org/citations/19179481) target="_blank">19179481, PubMed: [20702587](http://www.uniprot.org/citations/20702587) target="_blank">20702587, PubMed: [24700863](http://www.uniprot.org/citations/24700863) target="_blank">24700863, PubMed: [25106868](http://www.uniprot.org/citations/25106868) target="_blank">25106868, PubMed: [25014217](http://www.uniprot.org/citations/25014217) target="_blank">25014217, PubMed: [26542173](http://www.uniprot.org/citations/26542173) target="_blank">26542173). Positively regulates early adipogenesis by promoting ARE-mediated mRNA decay of immediate early genes (IEGs) (By similarity). Promotes ARE-mediated mRNA decay of mineralocorticoid receptor NR3C2 mRNA in response to hypertonic stress (PubMed: [24700863](http://www.uniprot.org/citations/24700863) target="_blank">24700863). Negatively regulates hematopoietic/erythroid cell differentiation by promoting ARE-mediated mRNA decay of the transcription factor STAT5B mRNA (PubMed: [20702587](http://www.uniprot.org/citations/20702587) target="_blank">20702587). Positively regulates monocyte/macrophage cell differentiation by promoting ARE-mediated mRNA decay of the cyclin-dependent kinase CDK6 mRNA (PubMed: [26542173](http://www.uniprot.org/citations/26542173) target="_blank">26542173). Promotes degradation of ARE-containing pluripotency-associated mRNAs in embryonic stem cells (ESCs), such as NANOG, through a fibroblast growth factor (FGF)-induced MAPK-dependent signaling pathway, and hence attenuates ESC self-renewal and positively regulates mesendoderm differentiation (By similarity). May play a role in mediating pro-apoptotic effects in malignant B-cells by promoting ARE-mediated mRNA decay of BCL2 mRNA (PubMed: [25014217](http://www.uniprot.org/citations/25014217) target="_blank">25014217). In association with ZFP36L2 maintains quiescence on developing B lymphocytes by promoting ARE-mediated decay of several mRNAs encoding cell cycle regulators that help B cells progress through the cell cycle, and hence ensuring accurate variable-diversity-joining (VDJ) recombination and functional immune cell formation (By similarity). Together with ZFP36L2 is also necessary for thymocyte development and prevention of T-cell acute lymphoblastic leukemia (T-ALL) transformation by promoting ARE- mediated mRNA decay of the oncogenic transcription factor NOTCH1 mRNA (By similarity). Participates in the delivery of target ARE-mRNAs to processing bodies (PBs) (PubMed: [17369404](http://www.uniprot.org/citations/17369404) target="_blank">17369404). In addition to its cytosolic mRNA-decay function, plays a role in the regulation of nuclear mRNA 3'- end processing; modulates mRNA 3'-end maturation efficiency of the DLL4 mRNA through binding with an ARE embedded in a weak noncanonical polyadenylation (poly(A)) signal in endothelial cells (PubMed: [21832157](http://www.uniprot.org/citations/21832157) target="_blank">21832157). Also involved in the regulation of stress granule (SG) and P-body (PB) formation and fusion (PubMed: [15967811](http://www.uniprot.org/citations/15967811) target="_blank">15967811). Plays a role in vasculogenesis and endocardial development (By similarity). Plays a role in the regulation of keratinocyte proliferation, differentiation and apoptosis (PubMed: [27182009](http://www.uniprot.org/citations/27182009) target="_blank">27182009). Plays a role in myoblast cell differentiation (By similarity).

Cellular Location

Nucleus. Cytoplasm. Cytoplasmic granule. Cytoplasm, P-body Note=Shuttles between the nucleus and the cytoplasm in a XPO1/CRM1- dependent manner (By similarity). Component of cytoplasmic stress granules (PubMed:15967811). Localizes in processing bodies (PBs) (PubMed:17369404). {ECO:0000250|UniProtKB:P23950, ECO:0000269|PubMed:15967811, ECO:0000269|PubMed:17369404}

Tissue Location

Expressed mainly in the basal epidermal layer, weakly in the suprabasal epidermal layers (PubMed:27182009). Expressed in epidermal keratinocytes (at protein level) (PubMed:27182009) Expressed in osteoblasts (PubMed:15465005)

Anti-ZFP36L1 Antibody (Internal) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ZFP36L1 Antibody (Internal) - Images