

# Anti-ZFP36L1 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS17414

## Product Information

<b>Application</b>	WB, IHC-P, IP
<b>Primary Accession</b>	<a href="#">Q07352</a>
<b>Predicted</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	36314
<b>Concentration (mg/ml)</b>	1 mg/ml

## Additional Information

<b>Gene ID</b>	677
<b>Alias Symbol</b>	ZFP36L1
<b>Other Names</b>	ZFP36L1, Berg36, Butyrate response factor 1, Early response factor Berg36, ERF-1, ERF1, EGF-response factor 1, Protein TIS11B, RNF162B, TIS11B, CMG1
<b>Target/Specificity</b>	Recognizes endogenous levels of ZFP36L1 protein.
<b>Reconstitution &amp; Storage</b>	PBS, pH 7.3, 0.01% sodium azide, 30% glycerol. Store at -20°C. Aliquot to avoid freeze/thaw cycles.
<b>Precautions</b>	Anti-ZFP36L1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	ZFP36L1 ( <a href="#">HGNC:1107</a> )
<b>Function</b>	Zinc-finger RNA-binding protein that destabilizes several cytoplasmic AU-rich element (ARE)-containing mRNA transcripts by promoting their poly(A) tail removal or deadenylation, and hence provide a mechanism for attenuating protein synthesis (PubMed: <a href="#">12198173</a> , PubMed: <a href="#">15467755</a> , PubMed: <a href="#">15538381</a> , PubMed: <a href="#">17030608</a> , PubMed: <a href="#">19179481</a> , PubMed: <a href="#">20702587</a> , PubMed: <a href="#">24700863</a> , PubMed: <a href="#">25014217</a> , PubMed: <a href="#">25106868</a> , PubMed: <a href="#">26542173</a> ). Acts as a 3'-untranslated region (UTR) ARE mRNA- binding adapter protein to communicate signaling events to the mRNA decay machinery (PubMed: <a href="#">15687258</a> ). 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: <a href="#">15687258</a> , PubMed: <a href="#">18326031</a> , PubMed: <a href="#">25106868</a> ). Also induces 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](#), PubMed:[15467755](#), PubMed:[15538381](#), PubMed:[17030608](#), PubMed:[19179481](#), PubMed:[20702587](#), PubMed:[24700863](#), PubMed:[25014217](#), PubMed:[25106868](#), PubMed:[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](#)). Negatively regulates hematopoietic/erythroid cell differentiation by promoting ARE-mediated mRNA decay of the transcription factor STAT5B mRNA (PubMed:[20702587](#)). Positively regulates monocyte/macrophage cell differentiation by promoting ARE-mediated mRNA decay of the cyclin-dependent kinase CDK6 mRNA (PubMed:[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](#)). 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](#)). 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](#)). Also involved in the regulation of stress granule (SG) and P-body (PB) formation and fusion (PubMed:[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](#)). 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](#))

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