

ZFP36L2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17671c**Specification**

ZFP36L2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P47974](#)**ZFP36L2 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 678

Other Names

Zinc finger protein 36, C3H1 type-like 2, ZFP36-like 2, Butyrate response factor 2, EGF-response factor 2, ERF-2, Protein TIS11D, ZFP36L2, BRF2, ERF2, RNF162C, TIS11D

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ZFP36L2 Antibody (Center) Blocking Peptide - Protein InformationName ZFP36L2 ([HGNC:1108](#))**Function**

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:14981510, PubMed:25106868, PubMed:34611029). Acts as a 3'-untranslated region (UTR) ARE mRNA-binding adapter protein to communicate signaling events to the mRNA decay machinery (PubMed:25106868). Functions by recruiting the CCR4-NOT deadenylase complex and probably other components of the cytoplasmic RNA decay machinery to the bound ARE-containing mRNAs, and hence promotes ARE-mediated mRNA deadenylation and decay processes (PubMed:25106868). Binds to 3'-UTR ARE of numerous mRNAs (PubMed:14981510, PubMed:20506496, PubMed:25106868). Promotes ARE- containing mRNA decay of the low-density lipoprotein (LDL) receptor (LDLR) mRNA in

response to phorbol 12-myristate 13-acetate (PMA) treatment in a p38 MAPK-dependent manner (PubMed:25106868). Positively regulates early adipogenesis by promoting ARE-mediated mRNA decay of immediate early genes (IEGs). Plays a role in mature peripheral neuron integrity by promoting ARE-containing mRNA decay of the transcriptional repressor REST mRNA. Plays a role in ovulation and oocyte meiotic maturation by promoting ARE-mediated mRNA decay of the luteinizing hormone receptor LHCGR mRNA. Acts as a negative regulator of erythroid cell differentiation: promotes glucocorticoid-induced self-renewal of erythroid cells by binding mRNAs that are induced or highly expressed during terminal erythroid differentiation and promotes their degradation, preventing erythroid cell differentiation. In association with ZFP36L1 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 process and functional immune cell formation. Together with ZFP36L1 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.

Cellular Location

Nucleus. Cytoplasm. Note=Shuttles between the nucleus and the cytoplasm in a XPO1/CRM1-dependent manner {ECO:0000250|UniProtKB:P23949}

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 oocytes (PubMed:34611029).

ZFP36L2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ZFP36L2 Antibody (Center) Blocking Peptide - Images

ZFP36L2 Antibody (Center) Blocking Peptide - Background

This gene is a member of the TIS11 family of earlyresponse genes. Family members are induced by various agonists such as the phorbol ester TPA and the polypeptide mitogen EGF. The encoded protein contains a distinguishing putative zinc finger domain with a repeating cys-his motif. This putative nucleartranscription factor most likely functions in regulating the response to growth factors.

ZFP36L2 Antibody (Center) Blocking Peptide - References

Morgan, B.R., et al. Protein Sci. 19(6):1222-1234(2010) Jackson, R.S. II, et al. Cell Cycle 5(24):2889-2893(2006) Hudson, B.P., et al. Nat. Struct. Mol. Biol. 11(3):257-264(2004) Blackshear, P.J., et al. Prog. Nucleic Acid Res. Mol. Biol. 75, 43-68 (2003) Ino, T., et al. Oncogene 11(12):2705-2710(1995)