

ZFP36 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8952c

Specification

ZFP36 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P26651
Other Accession	P47973 , P22893
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34003
Antigen Region	116-142

ZFP36 Antibody (Center) - Additional Information

Gene ID 7538

Other Names

Tristetraprolin, TTP, G0/G1 switch regulatory protein 24, Growth factor-inducible nuclear protein NUP475, Protein TIS11A, TIS11, Zinc finger protein 36 homolog, Zfp-36, ZFP36, G0S24, RNF162A, TIS11A, TTP

Target/Specificity

This ZFP36 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 116-142 amino acids from the Central region of human ZFP36.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ZFP36 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ZFP36 Antibody (Center) - Protein Information

Name ZFP36 ([HGNC:12862](#))

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:[10330172](#), PubMed:[10751406](#), PubMed:[11279239](#), PubMed:[12115244](#), PubMed:[12748283](#), PubMed:[15187101](#), PubMed:[15634918](#), PubMed:[16702957](#), PubMed:[17030620](#), PubMed:[20221403](#), PubMed:[20702587](#), PubMed:[21775632](#), PubMed:[23644599](#), PubMed:[25815583](#), PubMed:[27193233](#), PubMed:[31439631](#), PubMed:[9703499](#)). Acts as an 3'-untranslated region (UTR) ARE mRNA-binding adapter protein to communicate signaling events to the mRNA decay machinery (PubMed:[15687258](#), PubMed:[23644599](#)). Recruits deadenylase CNOT7 (and probably the CCR4-NOT complex) via association with CNOT1, and hence promotes ARE-mediated mRNA deadenylation (PubMed:[23644599](#)). Functions also by recruiting components of the cytoplasmic RNA decay machinery to the bound ARE-containing mRNAs (PubMed:[11719186](#), PubMed:[12748283](#), PubMed:[15687258](#), PubMed:[16364915](#)). Self regulates by destabilizing its own mRNA (PubMed:[15187101](#)). Binds to 3'-UTR ARE of numerous mRNAs and of its own mRNA (PubMed:[10330172](#), PubMed:[10751406](#), PubMed:[12115244](#), PubMed:[15187101](#), PubMed:[15634918](#), PubMed:[16702957](#), PubMed:[17030620](#), PubMed:[19188452](#), PubMed:[20221403](#), PubMed:[20702587](#), PubMed:[21775632](#), PubMed:[25815583](#)). Plays a role in anti-inflammatory responses; suppresses tumor necrosis factor (TNF)-alpha production by stimulating ARE-mediated TNF-alpha mRNA decay and several other inflammatory ARE-containing mRNAs in interferon (IFN)- and/or lipopolysaccharide (LPS)-induced macrophages (By similarity). Also plays a role in the regulation of dendritic cell maturation at the post-transcriptional level, and hence operates as part of a negative feedback loop to limit the inflammatory response (PubMed:[18367721](#)). Promotes ARE-mediated mRNA decay of hypoxia-inducible factor HIF1A mRNA during the response of endothelial cells to hypoxia (PubMed:[21775632](#)). Positively regulates early adipogenesis of preadipocytes by promoting ARE-mediated mRNA decay of immediate early genes (IEGs) (By similarity). Negatively regulates hematopoietic/erythroid cell differentiation by promoting ARE-mediated mRNA decay of the transcription factor STAT5B mRNA (PubMed:[20702587](#)). Plays a role in maintaining skeletal muscle satellite cell quiescence by promoting ARE-mediated mRNA decay of the myogenic determination factor MYOD1 mRNA (By similarity). Associates also with and regulates the expression of non-ARE-containing target mRNAs at the post-transcriptional level, such as MHC class I mRNAs (PubMed:[18367721](#)). Participates in association with argonaute RISC catalytic components in the ARE-mediated mRNA decay mechanism; assists microRNA (miRNA) targeting ARE-containing mRNAs (PubMed:[15766526](#)). May also play a role in the regulation of cytoplasmic mRNA decapping; enhances decapping of ARE-containing RNAs, in vitro (PubMed:[16364915](#)). Involved in the delivery of target ARE-mRNAs to processing bodies (PBs) (PubMed:[17369404](#)). In addition to its cytosolic mRNA-decay function, affects nuclear pre-mRNA processing (By similarity). Negatively regulates nuclear poly(A)-binding protein PABPN1-stimulated polyadenylation activity on ARE-containing pre-mRNA during LPS-stimulated macrophages (By similarity). Also involved in the regulation of stress granule (SG) and P-body (PB) formation and fusion (By similarity). Plays a role in the regulation of keratinocyte proliferation, differentiation and apoptosis (PubMed:[27182009](#)). Plays a role as a tumor suppressor by inhibiting cell proliferation in breast cancer cells (PubMed:[26926077](#)).

Cellular Location

Nucleus. Cytoplasm. Cytoplasmic granule. Cytoplasm, P-body. Note=Shuttles between nucleus and cytoplasm in a CRM1-dependent manner (By similarity). Localized predominantly in the cytoplasm in a p38 MAPK- and YWHAB-dependent manner (By similarity). Colocalizes with SH3KBP1 and MAP3K4 in the cytoplasm (PubMed:[20221403](#)). Component of cytoplasmic stress granules (SGs) (By similarity). Localizes to cytoplasmic stress granules upon energy starvation (PubMed:[15014438](#)). Localizes in processing bodies (PBs) (PubMed:[17369404](#)). Excluded from stress granules in a phosphorylation MAPKAPK2-dependent manner (By similarity). Shuttles in and out of both cytoplasmic P-body and SGs (By similarity) {ECO:0000250|UniProtKB:P22893, ECO:0000269|PubMed:[15014438](#), ECO:0000269|PubMed:[17369404](#), ECO:0000269|PubMed:[20221403](#)}

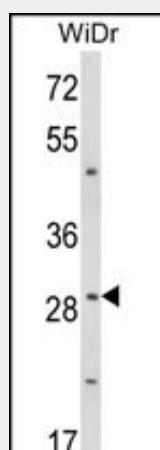
Tissue Location

Expressed in both basal and suprabasal epidermal layers (PubMed:27182009). Expressed in epidermal keratinocytes (PubMed:27182009). Expressed strongly in mature dendritic cells (PubMed:18367721). Expressed in immature dendritic cells (at protein level) (PubMed:18367721).

ZFP36 Antibody (Center) - 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](#)

ZFP36 Antibody (Center) - Images

Western blot analysis of ZFP36 Antibody (Center) (Cat. #AP8952c) in WiDr cell line lysates (35ug/lane). ZFP36 (arrow) was detected using the purified Pab.

ZFP36 Antibody (Center) - Background

ZFP36 is probable regulatory protein with a novel zinc finger structure involved in regulating the response to growth factors. Has been experimentally shown to be able to bind zinc.

ZFP36 Antibody (Center) - References

Lee,H.H., et.al., Int. J. Cancer 126 (8), 1817-1827 (2010)
Datta,S., et.al., J. Immunol. 184 (3), 1484-1491 (2010)