

ZNF598 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI11315**Specification**

ZNF598 antibody - middle region - Product Information

Application	WB
Primary Accession	Q86UK7
Other Accession	NM_178167 , NP_835461
Reactivity	Human, Mouse, Rat, Pig, Horse, Bovine
Predicted	Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	99kDa KDa

ZNF598 antibody - middle region - Additional Information**Gene ID** 90850

Alias Symbol	DKFZp762F135, FLJ00086
Other Names	
Zinc finger protein 598, ZNF598	

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-ZNF598 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

ZNF598 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

ZNF598 antibody - middle region - Protein Information**Name** ZNF598 {ECO:0000303|PubMed:28132843, ECO:0000312|HGNC:HGNC:28079}**Function**

E3 ubiquitin-protein ligase that plays a key role in the ribosome quality control (RQC), a pathway that takes place when a ribosome has stalled during translation, leading to degradation of nascent peptide chains (PubMed: [28065601](http://www.uniprot.org/citations/28065601), PubMed: [28132843](http://www.uniprot.org/citations/28132843), PubMed: [28685749](http://www.uniprot.org/citations/28685749), PubMed: [32579943](http://www.uniprot.org/citations/32579943), PubMed: [32099016](http://www.uniprot.org/citations/32099016), PubMed: [33581075](http://www.uniprot.org/citations/33581075)). ZNF598 is activated when ribosomes are stalled within an

mRNA following translation of prematurely polyadenylated mRNAs (PubMed:28065601, PubMed:28132843, PubMed:28685749). Acts as a ribosome collision sensor: specifically recognizes and binds collided di-ribosome, which arises when a trailing ribosome encounters a slower leading ribosome, leading to terminally arrest translation (PubMed:28065601, PubMed:28132843, PubMed:28685749, PubMed:30293783). Following binding to colliding ribosomes, mediates monoubiquitination of 40S ribosomal proteins RPS10/eS10 and RPS3/uS3, and 'Lys-63'-linked polyubiquitination of RPS20/uS10 (PubMed:28065601, PubMed:28132843, PubMed:28685749). Polyubiquitination of RPS20/uS10 promotes recruitment of the RQT (ribosome quality control trigger) complex, which drives the disassembly of stalled ribosomes, followed by degradation of nascent peptides (PubMed:32579943, PubMed:32099016, PubMed:36302773). E3 ubiquitin-protein ligase activity is dependent on the E2 ubiquitin- conjugating enzyme UBE2D3 (PubMed:28685749). Also acts as an adapter that recruits the 4EHP-GYF2 complex to mRNAs (PubMed:22751931, PubMed:32726578). Independently of its role in RQC, may also act as a negative regulator of interferon-stimulated gene (ISG) expression (PubMed:29719242).

Cellular Location

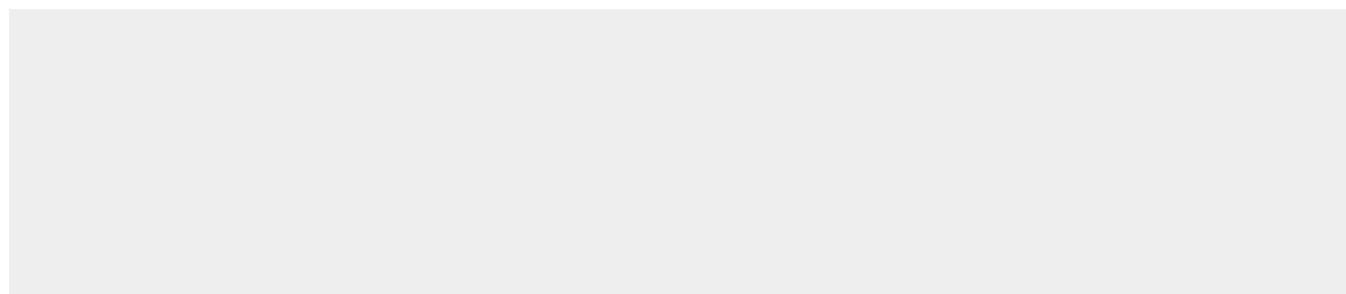
Cytoplasm, cytosol.

ZNF598 antibody - middle region - 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](#)

ZNF598 antibody - middle region - Images





WB Suggested Anti-ZNF598 Antibody Titration: 0.2-1 μ g/ml

ELISA Titer: 1:312500

Positive Control: MCF7 cell lysate

ZNF598 antibody - middle region - References

Tao, W.A., (2005) Nat. Methods 2 (8), 591-598 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.