10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ANKZF1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10914

Product Information

Application	WB
Primary Accession	Q9H8Y5
Other Accession	NM_018089, NP_060559
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Horse, Bovine
Predicted	Human, Rat, Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80927

Additional Information

Gene ID	55139
Alias Symbol	FLJ10415, FLJ13144, ZNF744
Other Names	Ankyrin repeat and zinc finger domain-containing protein 1, Zinc finger protein 744, ANKZF1, ZNF744
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-ANKZF1 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	ANKZF1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

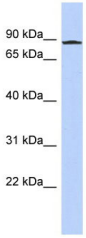
Name	ANKZF1 {ECO:0000303|PubMed:21896481, ECO:0000312|HGNC:HGNC:25527}
Function	Endonuclease that cleaves polypeptidyl-tRNAs downstream of the ribosome-associated quality control (RQC) pathway to release incompletely synthesized polypeptides for degradation (PubMed:29632312, PubMed:30244831, PubMed:31011209). The RQC pathway disassembles aberrantly stalled translation complexes to recycle or degrade the constituent parts (PubMed:29632312, PubMed:30244831, PubMed:31011209). ANKZF1 acts downstream disassembly of stalled ribosomes and specifically cleaves off the terminal 3'-CCA nucleotides universal to all tRNAs from polypeptidyl-tRNAs, releasing (1) ubiquitinated polypeptides from 60S

	ribosomal subunit for degradation and (2) cleaved tRNAs (PubMed:31011209). ANKZF1-cleaved tRNAs are then repaired and recycled by ELAC1 and TRNT1 (PubMed:31011209, PubMed:32075755). Also plays a role in the cellular response to hydrogen peroxide and in the maintenance of mitochondrial integrity under conditions of cellular stress (PubMed:28302725).
Cellular Location	Cytoplasm. Note=Translocates to the mitochondria upon exposure to hydrogen peroxide.

References

Olsen,J.V., (2006) Cell 127 (3), 635-648 Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images



WB Suggested Anti-ANKZF1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: PANC1 cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.