

ERN2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7128a

Product Information

Application	WB, E
Primary Accession	Q76MJ5
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB8519
Calculated MW	102480
Antigen Region	39-72

Additional Information

Gene ID	10595
Other Names	Serine/threonine-protein kinase/endoribonuclease IRE2, Endoplasmic reticulum-to-nucleus signaling 2, Inositol-requiring protein 2, hIRE2p, Ire1-beta, IRE1b, Serine/threonine-protein kinase, Endoribonuclease, 3126-, ERN2 (HGNC:16942)
Target/Specificity	This ERN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-72 amino acids from the N-terminal region of human ERN2.
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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	ERN2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ERN2 (HGNC:16942)
Function	Induces translational repression through 28S ribosomal RNA cleavage in response to ER stress. Pro-apoptotic. Appears to play no role in the

unfolded-protein response, unlike closely related proteins.

Cellular Location

Endoplasmic reticulum membrane; Single-pass type I membrane protein

Background

ERN2 induces translational repression through 28S ribosomal RNA cleavage in response to endoplasmic reticulum (ER) stress. This pro-apoptotic appears to play no role in the unfolded-protein response, unlike closely related proteins. Overexpression of ERN2 activates both BiP and CHOP expression, and also leads to the development of programmed cell death. It has been suggested that Ern2 plays a role in multiple facets of the ER stress response in mammalian cells.

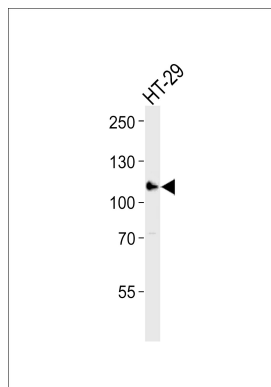
References

Iwawaki, T., et al., Nat. Cell Biol. 3(2):158-164 (2001).

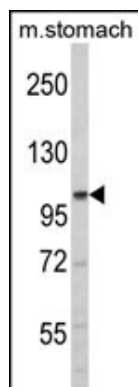
Niwa, M., et al., Cell 99(7):691-702 (1999).

Wang, X.Z., et al., EMBO J. 17(19):5708-5717 (1998).

Images



Western blot analysis of lysate from HT-29 cell line, using ERN2 Antibody (N-term)(Cat. #AP7128a). AP7128a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35ug.



Western blot analysis of ERN2 N-term (Cat. #AP7128a) in mouse stomach tissue lysates (35ug/lane). ERN2 (arrow) was detected using the purified Pab.

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