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ERN2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7128a

Specification

ERN2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q76MJ5

ERN2 Antibody (N-term) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP7128a was selected from the N-term region of human ERN2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

ERN2 Antibody (N-term) Blocking Peptide - 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

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ERN2 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ERN2 Antibody (N-term) Blocking Peptide - Images

ERN2 Antibody (N-term) Blocking Peptide - 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.

ERN2 Antibody (N-term) Blocking Peptide - 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).