

Product datasheet for AM31059PU-N

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc.

IRE1 (ERN1) Mouse Monoclonal Antibody [Clone ID: 3D1]

Product data:

Product Type: Primary Antibodies

Clone Name: 3D1

Applications: ELISA, IHC, WB

Recommended Dilution: ELISA.

Immunohistochemistry on Paraffin Sections: 5 µg/ml.

Western Blot.

Reactivity: Human
Host: Mouse
Isotype: IgG1

Clonality: Monoclonal

Immunogen: ERN1 antibody was raised against recombinant protein

Specificity: This antibody reacts to ERN1 / IRE1.

Formulation: PBS, pH 7.2

State: Purified

State: Liquid purfied Ig fraction

Concentration: lot specific

Purification: Protein A chromatography

Conjugation: Unconjugated

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: endoplasmic reticulum to nucleus signaling 1

Database Link: Entrez Gene 2081 Human

O75460





Background:

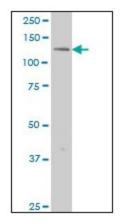
The endoribonuclease IRE1/ERN1 encodes the ER-to-nucleus signaling 1 protein, a human homolog of the yeast Ire1 gene product. In S. cerevisiae, as well as in human, this ER transmembrane IRE serine/threonine protein kinase monitors the status of unfolded proteins inside the ER lumen in response to stress. Activation of ERN1 leads to oligomerization, autophosphorylation, and proteolytic cleavage. The kinase and nuclease domains are then transported into the nucleus to function as a site-specific endoribonuclease. ERN1 activates INK and other chaperone genes in response to stress.

Synonyms: Inositol-requiring protein 1, IRE1p, Ire1-alpha, IRE1a

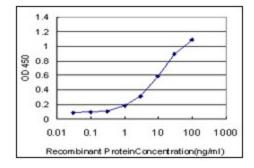
Protein Families: Protein Kinase, Transmembrane

Protein Pathways: Alzheimer's disease

Product images:

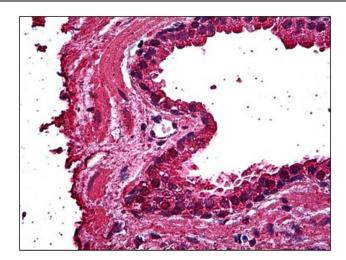


ERN1 monoclonal antibody clone 3D1 Western Blot analysis of ERN1 expression in HeLa.



Detection limit for recombinant GST tagged ERN1 is approximately 0.3ng/ml as a capture antibody.





Human Prostate, Epithelium: Formalin-Fixed, Paraffin-Embedded (FFPE)