

#### OriGene Technologies, Inc.

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

# Product datasheet for TA306275

### **IRE1 (ERN1) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies	
Applications:	WB	
Recommended Dilution:	WB: 1 - 2 ug/mL	
Reactivity:	Human	
Host:	Rabbit	
lsotype:	IgG	
Clonality:	Polyclonal	
Immunogen:	IRE1p antibody was raised against a 15 amino acid peptide from near the center of human IRE1p.	
Formulation:	PBS containing 0.02% sodium azide.	
Concentration:	1ug/ul	
Purification:	Affinity chromatography purified via peptide column	
Conjugation:	Unconjugated	
Storage:	Store at -20°C as received.	
Stability:	Stable for 12 months from date of receipt.	
Gene Name:	endoplasmic reticulum to nucleus signaling 1	
Database Link:	<u>NP_001424</u> <u>Entrez Gene 2081 Human</u> <u>O75460</u>	



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

## **CRIGENE** IRE1 (ERN1) Rabbit Polyclonal Antibody – TA306275

Background:	Accumulation of malfolded proteins in the endoplasmic reticulum (ER) activates the unfolded protein response (UPR) and the upregulation of the ER molecular chaperones GRP78 and GRP 94 (1,2). These proteins are normally bound to ER transmembrane proteins such as IRE1p and ATF6 (3,4) but ER stress causes their dissociation. This allows IRE1p, a serine-threonine protein kinase to transduce the unfolded protein signal from the ER to the nucleus. IRE1p also has an endoribonuclease activity that is required to splice X-box binding protein (XBP1) mRNA converting it to a potent UPR transcriptional activation (5). Depletion of IRE1p through the expression of a dominant negative form of IRE1p has no effect on transfected cells, but cell death via apoptosis occurs under stress conditions that cause unfolded proteins to accumulate in the ER (6). Two alternatively spliced transcript variants encoding different is formed for this gape.
	isoforms have been found for this gene.

Synonyms:	hIRE1p; IRE1; IRE1a; IRE1P
Protein Families:	Protein Kinase, Transmembrane
Protein Pathways:	Alzheimer's disease

#### **Product images:**



Western blot analysis of IRE1p in Raji cell lysate with IRE1p antibody at (A) 1 and (B) 2 ug/ml.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US