# .-online.com antibodies

## Datasheet for ABIN500048 anti-ERN1 antibody (C-Term)

3 Images



## Overview

Quantity:	0.1 mg
Target:	ERN1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ERN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

## Product Details

Immunogen:	16 amino acid synthetic peptide from near the carboxy terminus of Human IRE1p
Isotype:	lgG
Specificity:	IRE1p antibody was raised against a 16 amino acid peptide from near the carboxy terminus of human IRE1p.
Purification:	Affinity Chromatography purified via peptide column

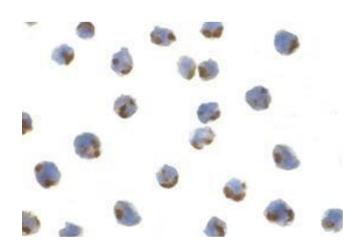
## Target Details

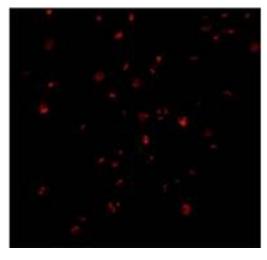
Target:	ERN1
Alternative Name:	ERN1 / IRE1 (ERN1 Products)
Background:	Accumulation of malfolded proteins in the endoplasmic reticulum (ER) activates the unfolded

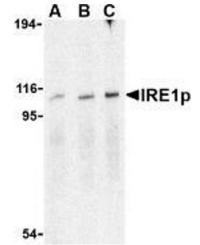
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN500048 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

	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 isoforms have
	been found for this gene.Synonyms: Endoplasmic reticulum-to-nucleus signaling 1, IRE1a,
	IRE1p, Inositol-requiring protein 1, Ire1-alpha, Serine/threonine-protein kinase/endoribonuclease
	IRE1
Gene ID:	2081
UniProt:	075460
Pathways:	ER-Nucleus Signaling, Unfolded Protein Response
Application Details	
Application Notes:	ELISA. Western Blot: 1 - 2 μg/mL. Immunocytochemistry.
Application roles.	Other applications not tested.
Application rootes.	
Restrictions:	Other applications not tested.
	Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions: Handling	Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. For Research Use only
Restrictions: Handling Concentration:	Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. For Research Use only 1.0 mg/mL
Restrictions: Handling Concentration: Buffer:	Other applications not tested.   Optimal dilutions are dependent on conditions and should be determined by the user.   For Research Use only   1.0 mg/mL   PBS containing 0.02 % Sodium Azide
Restrictions: Handling Concentration: Buffer: Preservative:	Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. For Research Use only 1.0 mg/mL PBS containing 0.02 % Sodium Azide Sodium azide
Restrictions: Handling Concentration: Buffer: Preservative:	Other applications not tested.   Optimal dilutions are dependent on conditions and should be determined by the user.   For Research Use only   1.0 mg/mL   PBS containing 0.02 % Sodium Azide   Sodium azide   This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
Restrictions: Handling Concentration: Buffer: Preservative: Precaution of Use:	Other applications not tested.   Optimal dilutions are dependent on conditions and should be determined by the user.   For Research Use only   1.0 mg/mL   PBS containing 0.02 % Sodium Azide   Sodium azide   This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN500048 | 09/12/2023 | Copyright antibodies-online. All rights reserved.







#### Immunofluorescence

**Image 1.** Immunocytochemistry of IRE1p in A-20 cells with AP30444PU-N IRE1p antibody at 1  $\mu$ g/ml.

### Immunofluorescence

**Image 2.** Immunofluorescence of IRE1p in A20 cells with AP30444PU-N IRE1p antibody at 2 ug/ml.

#### Western Blotting

Image 3. Western blot analysis of IRE1p in A-20 cell lysate with AP30444PU-N IRE1p antibody at (A), 0.5 (B) 1 and (C) 2  $\mu$ g/ml.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN500048 | 09/12/2023 | Copyright antibodies-online. All rights reserved.