



# Rabbit Anti-Ire1P (C-Terminal) Polyclonal antibody (CPBT-67581RI)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Product Overview** This product recognises inositol-requiring kinase 1 precursor (IRE1p), a 108kDa serine-threonine kinase/endoribonuclease also known as ERN1. It is an endoplasmic reticulum (ER) transmembrane protein, normally bound to the ER molecular chaperones GRP78 and GRP94. At times of ER stress, due to accumulation of unfolded proteins, IRE1p becomes dissociated from the chaperones, which allows it to activate the un-folded protein transcriptional response (UPR). In the mammalian genome, there are two homologs Ire1alpha and Ire1beta. Ire1alpha is expressed in all cells and tissues, Ire1beta expression is primarily restricted to intestinal epithelial cells. Western Blotting detects a band of approximately 110kDa in A-20 cell lysate.

<b>Specificity</b>	IRE1p
<b>Immunogen</b>	A 16 amino acid peptide near the carboxy terminus of human IRE1p.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-Fr; WB
<b>Format</b>	Purified IgG - liquid
<b>Size</b>	100 µg
<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a

precipitate we recommend microcentrifugation before use.

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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ERN1 endoplasmic reticulum to nucleus signaling 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	ERN1
<b>Synonyms</b>	ERN1; endoplasmic reticulum to nucleus signaling 1; IRE1; IRE1P; IRE1a; hIRE1p; serine/threonine-protein kinase/endoribonuclease IRE1; ire1-alpha; inositol-requiring 1; ER to nucleus signalling 1; inositol-requiring enzyme 1; inositol-requiring protein 1;
<b>Entrez Gene ID</b>	<a href="#">2081</a>
<b>Protein Refseq</b>	<a href="#">NP_001424</a>
<b>UniProt ID</b>	O75460
<b>Chromosome Location</b>	17q24.2
<b>Pathway</b>	Alzheimers disease; Alzheimers Disease; Corticotropin-releasing hormone; IRE1alpha activates chaperones; Metabolism of proteins; Non-alcoholic fatty liver disease (NAFLD); Protein processing in endoplasmic reticulum; Unfolded Protein Response (UPR);
<b>Function</b>	ADP binding; ATP binding; endoribonuclease activity; enzyme binding; identical protein binding; magnesium ion binding; protein binding; protein homodimerization activity; protein serine/threonine kinase activity;

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