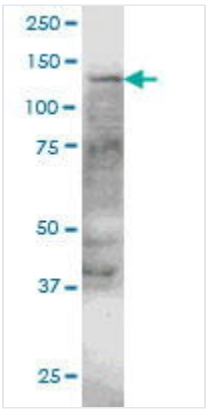
ERN1 Antibody – Mouse Monoclonal

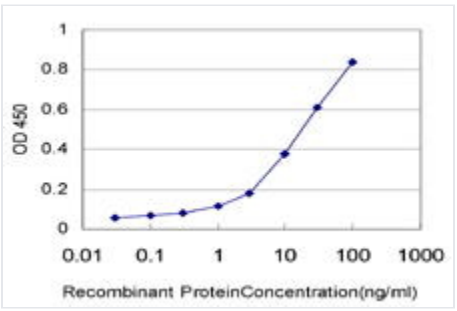
PRODUCT OVERVIEW

Product Name	ERN1, Monoclonal Antibody
Full Product Name	ERN1 (Endoplasmic Reticulum to Nucleus Signaling 1, FLJ30999, IRE1, IRE1P, MGC163277, MGC163279) (AP)
Product Gene Name	anti-ERN1 antibody
Product Synonym Names	Endoplasmic Reticulum to Nucleus Signaling 1; FLJ30999; IRE1; IRE1P; MGC163277; MGC163279
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	40
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes ERN1.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	ERN1 (AAC25991, 401aa-500aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	EEVINLVDQTSENAPTTVSRDVEEKPAHAPARPEAPVDSMLKDMATIILSTFLLIGWVAFIITYPLSMHQQQQLQHQQFQKELEKIQLLQQQQQQLPFHP
Conjugate	AP
Product Categories/Family for anti-ERN1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ERN1 antibody	Western Blot (WB)
Application Notes for anti-ERN1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ERN1 antibody	The protein encoded by this gene is the ER to nucleus signalling 1 protein, a human homologue of the yeast Ire1 gene product. This protein possesses intrinsic kinase activity and an endoribonuclease activity and it is important in altering gene expression as a response to endoplasmic reticulum-based stress signals. [provided by RefSeq]
Other Notes	Small volumes of anti-ERN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ERN1 purchase	MBS6162720 is an antibody targeting ERN1. Also known as ERN1 (Endoplasmic Reticulum to Nucleus Signaling 1, FLJ30999, IRE1, IRE1P, MGC163277, MGC163279) (AP). Host: Mouse.



Western Blot (WB) of anti-ERN1 antibody
ERN1 monoclonal antibody (M05), clone 4E1 Western Blot analysis of ERN1 expression in HeLa.



Testing Data of anti-ERN1 antibody
Detection limit for recombinant GST tagged ERN1 is approximately 1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ERN1. It may not necessarily be applicable to this product.

NCBI GI #	3300094
NCBI GeneID	2081
NCBI Accession #	AAC25991
UniProt Related Accession #	O75460
NCBI Official Full Name	protein kinase/endoribonulcease
NCBI Official Synonym Full Names	endoplasmic reticulum to nucleus signaling 1
NCBI Official Symbol	ERN1
NCBI Official Synonym Symbols	IRE1; IRE1P; IRE1a; hIRE1p
NCBI Protein Information	serine/threonine-protein kinase/endoribonuclease IRE1
NCBI Summary for ERN1	This gene encodes the transmembrane protein kinase inositol-requiring enzyme 1. The encoded protein contains two functional catalytic domains, a serine/threonine-protein kinase domain and an endoribonuclease domain. This protein functions as a sensor of unfolded proteins in the endoplasmic reticulum (ER) and triggers an intracellular signaling pathway termed the unfolded protein response (UPR). The UPR is an ER stress response that is conserved from yeast to mammals and activates genes involved in degrading misfolded proteins, regulating protein synthesis and activating molecular chaperones. This protein specifically mediates the splicing and activation of the stress response transcription factor X-box binding protein 1. [provided by RefSeq, Aug 2017]
Research Articles on ERN1	**1.** study unveils the existence of a novel PKD1-dependent prosurvival mechanism that is activated upon endoplasmic reticulum stress and selectively enhances IRE1 prosurvival signaling
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