

Datasheet for ABIN7601931 anti-MCU antibody (AA 51-351)



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Quantity:	100 μg	
Target:	MCU	
Binding Specificity:	AA 51-351	
Reactivity:	Human, Mouse, Rat, Monkey	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This MCU antibody is un-conjugated	
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB), Flow Cytometry (FACS)	
Product Details		
Purpose:	Anti-MCU Antibody Picoband®	
Immunogen:	E.coli-derived human MCU recombinant protein (Position: V51-D351).	
Isotype:	IgG	
Cross-Reactivity (Details):	No cross-reactivity with other proteins.	
Characteristics:	Anti-MCU Antibody Picoband® (ABIN7601931). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.	
Purification:	Immunogen affinity purified.	

Target Details

Target:	MCU		
Alternative Name:	MCU (MCU Products)		
Background:	Synonyms: Serine/threonine-protein kinase/endoribonuclease IRE1, Endoplasmic reticulum-to-		
	nucleus signaling 1, Inositol-requiring protein 1, hIRE1p, Ire1-alpha, IRE1a, Serine/threonine-		
	protein kinase, Endoribonuclease, ERN1		
	Tissue Specificity: Ubiquitously expressed. High levels observed in pancreatic tissue.		
	Background: The mitochondrial calcium uniporter (MCU) is a transmembrane protein that		
	allows the passage of calcium ions from a cell's cytosol into mitochondria. Its activity is		
	regulated by MICU1 and MICU2, which together with the MCU make up the mitochondrial		
	calcium uniporter complex. This gene encodes a calcium transporter that localizes to the		
	mitochondrial inner membrane. The encoded protein interacts with mitochondrial calcium		
	uptake 1. Alternative splicing results in multiple transcript variants.		
Molecular Weight:	34 kDa		
Gene ID:	90550		
Pathways:	Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis		
Application Details			
Application Notes:	Western blot, 0.25-0.5 μg/mL, Human, Mouse, Rat, Monkey		
	Immunohistochemistry (Paraffin-embedded Section), 2-5 μg/mL, Human, Mouse, Rat		
	Flow Cytometry (Fixed), 1-3 μg/1x10 ⁶ cells, Human		
	ELISA, 0.1-0.5 μg/mL, -		
	1. Baughman, J. M., Perocchi, F., Girgis, H. S., Plovanich, M., Belcher-Timme, C. A., Sancak, Y.,		
	Bao, X. R., Strittmatter, L., Goldberger, O., Bagorad, R. L., Koteliansky, V., Mootha, V. K.		
	Integrative genomics identifies MCU as an essential component of the mitochondrial calcium		
	uniporter. Nature 476: 341-345, 2011. 2. De Stefani, D., Raffaello, A., Teardo, E., Szabo, I.,		
	Rizzuto, R. A forty-kilodalton protein of the inner membrane is the mitochondrial calcium		
	uniporter. Nature 476: 336-340, 2011. 3. Hartz, P. A. Personal Communication. Baltimore, Md.		
	8/31/2011.		
Restrictions:	For Research Use only		
Restrictions: Handling	For Research Use only		

Handling

Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.