🗧 CBARA1/MICU1 (D4P8Q) Rabbit mAb





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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 47	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BPX6	Entrez-Gene Id: 10367	
Product Usage Information	•	Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sen	sitivity	CBARA1/MICU1 (D4P8Q) Rabbit mAb recognizes endogenous levels of total CBARA1/MICU1 protein.				MICU1 protein.	
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys110 of human CBARA1/MICU1 protein.				prresponding to	
Background		CBARA1/MICU1 is a mitochondrial protein associated to the mitochondrial inner membrane that is comprised of two EF hand helix-loop-helix motifs. CBARA1/MICU1 is involved in mitochondrial calcium entry, metabolic coupling between cytosolic calcium transients, and activation of matrix dehydrogenases (1). Mitochondrial CBARA1/MICU1 is required to preserve normal mitochondrial calcium concentration below the equilibrium level by interacting with the uniporter pore-forming subunit MCU (2). CBARA1/MICU1 is important in pancreatic β-cell mitochondrial calcium uptake and sustained insulin secretion (3).					
Background Ro	eferences	1. Perocchi, F. et al. (2010) <i>Nature</i> 467, 291-6. 2. Mallilankaraman, K. et al. (2012) <i>Cell</i> 151, 630-44. 3. Alam, M.R. et al. (2012) <i>J Biol Chem</i> 287, 34445-54.					
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting					
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey					
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