MCUR1 Antibody		Cell Signaling	
Store at	Orders:	877-616-CELL (2355) orders@cellsignal.com	
13706	Support:	877-678-TECH (8324)	
13/	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers Mas	sachusetts 01923 USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source: Rabbit	UniProt ID: #Q96AQ8	Entrez-Gene Id: 63933	
Product Usage Information	Aj	oplication			Dilution		
	W	Western Blotting 1:1000					
	Im	munoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensiti	vity MC	MCUR1 Antibody recognizes endogenous levels of total MCUR1 protein.					
Source / Purificatio	res	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala305 of human MCUR1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	in t and ind ove inte cal ma	Mitochondrial Calcium Uniporter Regulator 1 (MCUR1) is a mitochondrial inner membrane protein involved in the uptake of calcium. This multi-pass protein contains two transmembrane domains with both amino- and carboxy-termini projecting into the same mitochondrial intermembrane space (1). Research studies indicate that reduction in MCUR1 activity results in decreased mitochondrial Ca2+ uptake, while overexpression of MCUR1 results in increased mitochondrial calcium levels (1). MCUR1 protein directly interacts with mitochondrial calcium uniporter (MCU) and plays an essential role in the regulation of calcium uptake and maintenance of mitochondrial calcium homeostasis (1). Regulation of MCU by MCUR1 may be critical for a variety of cellular functions, including signal transduction, bioenergetics, and cell death and survival (2).					
Background Refere		Aarchi, S. and Pinton Aallilankaraman, K. (
Species Reactivity	Spe	cies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., w	estern blot).	
Western Blot Buffe	-	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 Key	WB	: Western Blotting II	P: Immunoprecipita	tion			
Cross-Reactivity K	X: X	I: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster : Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse iP: Guinea Pig Rab: rabbit All: all species expected					
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