#13706 Store at -20C

MCUR1 Antibody



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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	Ар	Application			Dilution		
	Western Blotting			1:1000			
	Imr	Immunoprecipitation			1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens	sitivity MCI	MCUR1 Antibody recognizes endogenous levels of total MCUR1 protein.					
Source / Purification		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 th and indic over inter calc may	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 References

- 1. Marchi, S. and Pinton, P. (2014) J Physiol 592, 829-39.
- 2. Mallilankaraman, K. et al. (2012) Nat Cell Biol 14, 1336-43.

Species Reactivity Species reactivity is determined by

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot 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 Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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