e at -20C	UCP2 (D1O5V) Rabbit mAb		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#89326		Web:	info@cellsignal.com cellsignal.com		
		3 Trask Lane Danvers Ma	ssachusetts 01923 USA		

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #P55851	Entrez-Gene Id: 7351	
Product Usage	Aŗ	oplication			Dilution		
Information	W	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sen	sitivity UC	UCP2 (D105V) Rabbit mAb recognizes endogenous levels of total UCP2 protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly153 of human UCP2 protein.					
Background Uncoupling protein 2 (UCP2) is a mitochondrial inner membrane transport protein that is expressed wide range of tissues (1). UCP2 inhibits mitochondrial glucose oxidation and promotes glycolysis in pluripotent stem cells (hPSCs) (2). During early differentiation of hPSCs, the expression of UCP2 is repressed, which results in reduced glycolysis (2). This demonstrates a role for UCP2 in the metabolic reprogramming during differentiation of hPSCs (2). Overexpression of UCP2 in cancer cells stimula oxidative phosphorylation in mitochondria and inhibits cell proliferation (3).					glycolysis in human on of UCP2 is in the metabolic		
Background Ref	2. Z	Aailloux, R.J. et al. (2 Zhang, J. et al. (2011) Esteves, P. et al. (201	<i>EMBO J</i> 30, 48	60-73.			
Species Reactivi	ity Spe	cies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Bu		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	y WB	: Western Blotting					
Cross-Reactivity	X: X	 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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