ACO2 (D6D9) XP[®] Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Rabbit IgG	UniProt ID: #Q99798	Entrez-Gene Id: 50		
Product Usag Information	e	Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:50 1:200		
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/Sensitivity		ACO2 (D6D9) XP $^{ extsf{B}}$ Rabbit mAb recognizes endogenous levels of total ACO2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly540 of human ACO2 protein.						
Background		Aconitase 2 (ACO2) catalyzes the conversion of citrate to isocitrate via cis-aconitate in the second step of the tricarboxylic acid (TCA) cycle (1,2). ACO2 is also an important regulator of iron homeostasis within cells (1-4). In addition, research studies have shown that this enzyme is deficient in the mitochondrial disease Friedreich's Ataxia (4,5).						
Background F	ackground References 1. Gille, G. and Reichmann, H. (2011) J Neural Transm 118, 349-59. 2. Mirel, D.B. et al. (1998) Gene 213, 205-18. 3. Myers, C.R. et al. (2010) Free Radic Biol Med 49, 1903-15. 4. Rötig, A. et al. (1997) Nat Genet 17, 215-7. 5. Ye, H. and Rouault, T.A. (2010) Biochemistry 49, 4945-56.							
Species React	ivity	Species reactivity is de	etermined by testing	g in at least one approve	ed 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	lications Key W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)							
Cross-Reactivity Key H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey								
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