mAb

#14309 Store at -20C

Cell Signaling Citrate Synthase (D7V8B) Rabbit

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

Applications: WB, IF-IC	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit IgG	UniProt ID: #O75390	Entrez-Gene Id: 1431		
Product Usage Information	We	olication stern Blotting nunofluorescence (Immunocytochen	nistry)	1	Dilution :1000 ::50 - 1:100		
Storage		olied in 10 mM sodi % sodium azide. St		μg/ml BSA, 50% glyc y.	cerol and less than			
Specificity / Sen	sitivity Citra	ite Synthase (D7V8	levels of total citrate s	synthase protein.				
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human citrate synthase protein.						
Background	citric citra vect Effec	Citrate synthase (CS) is a mitochondrial enzyme that catalyzes the first and rate-limiting reaction of the citric acid cycle (1,2). The enzyme is responsible for the conversion of oxaloacetate and acetyl-CoA to citrate and CoA (1,2). Research studies show that CS knockdown HeLa cells are more malignant than vector-transfected cells from an <i>in vivo</i> xenograft model, which suggests a direct link between the Warburg Effect and tumor growth (2). Intervertebral disc degeneration, a growing health problem, has been linked to changes in citrate synthase activity (3).						
Background Ref	2. Lii	 Wiegand, G. and Remington, S.J. (1986) Annu Rev Biophys Biophys Chem 15, 97-117. Lin, C.C. et al. (2012) Sci Rep 2, 785. Gruber, H.E. et al. (2013) J Orthop Res 31, 1270-5. 						
Species Reactiv	ity Speci	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Bu		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 Ke	у WB:	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity	X: Xe	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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