Malic Enzyme 3 (E8A3V) Rabbit mAb





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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 67	Source/Isotype: Rabbit IgG	UniProt ID: #Q16798	Entrez-Gene Id: 10873		
Product Usage Information	e	Application Western Blotting			Dilution 1:1000			
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. <i>Do not aliquot the antibody.</i>						
Specificity/Sensitivity		Malic Enzyme 3 (E8A3V) Rabbit mAb recognizes endogenous levels of total malic enzyme 3 protein. This antibody does not cross-react with malic enzyme 1 and malic enzyme 2 proteins. This antibody may detect a non-specific band at 60 kDa.						
Source / Purification Monoclonal antibody is produced by immunizing anima residues surrounding Ala390 of human malic enzyme 3					synthetic peptide co	prresponding to		
Background	ckgroundMalic enzymes catalyze oxidative decarboxylation of malate to pyruvate (1). The malic enzyme far mammalian cells includes the cytosolic malic enzyme 1 (ME1) and two mitochondrial malic enzym (ME2 and ME3) (1, 2). ME1 and ME2 are critical for tumor cell growth and their expression is repre- by tumor suppressor p53 (2). Reduced expression of ME1 and ME2 reciprocally increases the level activation of p53, promoting p53-mediated senescence (2). Research studies show ME3 is essenti the survival of pancreatic ductal adenocarcinoma following genomic deletion of <i>ME2</i> (3). Deletion <i>ME3</i> is lethal to <i>ME2</i> -null cancer cells, which has been suggested to provide a potential therapeut opportunity using collateral lethality (3, 4).							
Background R	eferences	1. Pongratz, R.L. et al. 2. Jiang, P. et al. (2013 3. Dey, P. et al. (2017) 4. Muller, F.L. et al. (20) <i>Nature</i> 493, 689-9 <i>Nature</i> 542, 119-23	3.				
Species React	ivity	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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	(ey	W: Western Blotting						
Cross-Reactivi	ity Key	H: Human M: Mouse R: Rat Mk: Monkey						
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