🗙 Malic Enzyme 2 (E1N3F) XP[®] Rabbit mAb





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Applications: W, IF-IC, FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 65	Source/Isotype: Rabbit IgG	UniProt ID: #P23368	Entrez-Gene Id: 4200	
Product Usage Information		Application Western Blotting Immunofluorescence Flow Cytometry (Fixed	-	istry)		Dilution 1:1000 1:400 1:400	
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/Sen	sitivity	Malic Enzyme 2 (E1N3F) XP [®] Rabbit mAb recognizes endogenous levels of total malic enzyme 2 protein. This antibody does not cross-react with malic enzyme 1 and malic enzyme 3 proteins.					
Source / Purifi	cation	tion Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu566 of human malic enzyme 2 protein.					
Background		Malic enzymes catalyze oxidative decarboxylation of malate to pyruvate (1). The malic enzyme family in mammalian cells includes the cytosolic malic enzyme 1 (ME1) and two mitochondrial malic enzymes (ME2 and ME3) (1, 2). ME1 and ME2 are critical for tumor cell growth and their expression is repressed by tumor suppressor p53 (2). Reduced expression of ME1 and ME2 reciprocally increases the levels and activation of p53, promoting p53-mediated senescence (2). Research studies show ME3 is essential for the survival of pancreatic ductal adenocarcinoma following genomic deletion of <i>ME2</i> (3). Deletion of <i>ME3</i> is lethal to <i>ME2</i> -null cancer cells, which has been suggested to provide a potential therapeutic opportunity using collateral lethality (3, 4).					
Background Re	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, 689-93 <i>Nature</i> 542, 119-23.	3.			
Species Reacti	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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 IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivi	ty Key	H: Human Mk: Monkey					
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