Fumarase (D9C5) Rabbit mAb





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Applications: W, IHC-P	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 49	Source/Isotype: Rabbit IgG	UniProt ID: #P07954	Entrez-Gene Id: 2271		
Product Usage Information	e	Application Western Blotting Immunohistochemistry (Paraffin)		Dilution 1:1000 1:50				
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/Se	nsitivity	Fumarase (D9C5) Rab	bbit mAb recognizes endogenous levels of total fumarase protein.					
Source / Purif	ication	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly354 of human fumarase protein.						
Background		Fumarate hydratase (Fumarase, FH) is canonically regarded as a mitochondrial enzyme of the tricarboxylic acid cycle that catalyzes fumarate to malate (1,2). Studies have demonstrated that deficiencies in FH can lead to hereditary leiomyomatosis and renal cell cancer (1,3) or, in homozygous germline mutations, severe neurological and muscular disorders (1,2). There also exists a cytosolic fumarase isoenzyme that is involved in DNA damage repair (3).						
Background R	eferences	1. Isaacs, J.S. et al. (2005) <i>Cancer Cell</i> 8, 143-53. 2. Bourgeron, T. et al. (1994) <i>J Clin Invest</i> 93, 2514-8. 3. Yogev, O. et al. (2010) <i>PLoS Biol</i> 8, e1000328.						
Species React	ivity	Species reactivity is de	etermined by testin	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 k	(ey	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivi	ity Key	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey						
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