#4567 Store at -20C

## Fumarase (D9C5) Rabbit mAb



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Applications: WB	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 49	Source/Isotype: Rabbit IgG	UniProt ID: #P07954	Entrez-Gene Id: 2271
Product Usage Information	Application			Dilution		
imormation	Western Blotting			1:1000		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sen	<b>sitivity</b> Fum	Fumarase (D9C5) Rabbit mAb recognizes endogenous levels of total fumarase protein.				
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly354 of human fumarase protein.				
Background	acid lead seve	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 Ref	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 Reactivity** 

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting

**Cross-Reactivity Key** 

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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