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#61586**SAT1 (D1T7M) Rabbit mAb**

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #P21673	Entrez-Gene Id: 6303
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Product Usage Information	Application Western Blotting Immunoprecipitation	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/Sensitivity	SAT1 (D1T7M) Rabbit mAb recognizes endogenous levels of total SAT1 protein.	
Species predicted to react based on 100% sequence homology	Mouse	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Trp132 of human SAT1 protein.	
Background	Spermidine/spermine N1-acetyltransferase 1 (SAT1) is a key enzyme in polyamine metabolism. It acts by acetylating spermidine and spermine using acetyl-coenzyme A (CoA), which alters their charge and facilitates their secretion (1,2). SAT1 activity is tightly controlled in cells, but increases quickly by excess polyamines. Its activity can also be induced by a number of other stimuli, such as oxidative stress, heat shock, insulin-like growth factor-I, and cytotoxins (2-4). Research studies have found that SAT1 is overexpressed in glioblastoma multiforme (GBM), which suggest that SAT1 may be a potential therapeutic target for GBM (5).	
Background References	<ol style="list-style-type: none"> 1. Casero, R.A. and Pegg, A.E. (1993) <i>FASEB J</i> 7, 653-61. 2. Pegg, A.E. (2008) <i>Am J Physiol Endocrinol Metab</i> 294, E995-1010. 3. Butcher, N.J. et al. (2007) <i>J Biol Chem</i> 282, 28530-9. 4. Perez-Leal, O. et al. (2012) <i>Mol Cell Biol</i> 32, 1453-67. 5. Brett-Morris, A. et al. (2014) <i>Cancer Res</i> 74, 6925-34. 	
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	H: Human	
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