

Aprataxin (D5P3C) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #Q7Z2E3	Entrez-Gene Id: 54840	
Product Usage Information		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. Do not aliquot the antibody.					
Specificity/Sensitivity		Aprataxin (D5P3C) Rabbit mAb recognizes endogenous levels of total aprataxin protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe282 of human aprataxin protein.					
Background		Aprataxin is a DNA repair protein that resolves DNA lesions (DNA adenylates) caused by abortive ligations in single-strand break repair, double-strand break repair and base excision repair (1). Aprataxin is recruited to sites of DNA damage by PARP1 (2). In the mitochondria, aprataxin and tyrosyl-DNA-phosphodiesterase 1 (TDP1) are required for repair of single strand breaks caused primarily by reactive oxygen species (ROS) (3). The gene for aprataxin, <i>APTX</i> , is defective in the neurodegenerative disorder oculomotor apraxia type 1 (AOA1)(4). Researchers have shown that levels of aprataxin can predict patient response to irinotecan-based treatments in colorectal cancer (5).					
Background References		1. Rass, U. et al. (2007) <i>J Biol Chem</i> 282, 9469-74. 2. Harris, J.L. et al. (2009) <i>Hum Mol Genet</i> 18, 4102-17. 3. Meagher, M. and Lightowlers, R.N. (2014) <i>Biochimie</i> 100, 121-4. 4. Schellenberg, M.J. et al. (2015) <i>Prog Biophys Mol Biol</i> 117, 157-65. 5. Dopeso, H. et al. (2010) <i>Clin Cancer Res</i> 16, 2375-82.					
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		W: Western Blotting					
Cross-Reactivity Key		H: Human M: Mouse R: Rat					
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