#52632 store at -20C

Aprataxin (D5P3C) Rabbit mAb



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #Q7Z2E3	Entrez-Gene Id: 54840	
Product Usage Information	Ap	plication		Dilution			
	We	estern Blotting		1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensi	tivity Apra	Aprataxin (D5P3C) Rabbit mAb recognizes endogenous levels of total aprataxin protein.					
Source / Purificati	•	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe282 of human aprataxin protein.					
Background	in si to si 1 (T (3). The (AO	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 Refe	2. H 3. M 4. S	 Rass, U. et al. (2007) J Biol Chem 282, 9469-74. Harris, J.L. et al. (2009) Hum Mol Genet 18, 4102-17. Meagher, M. and Lightowlers, R.N. (2014) Biochimie 100, 121-4. Schellenberg, M.J. et al. (2015) Prog Biophys Mol Biol 117, 157-65. Dopeso, H. et al. (2010) Clin Cancer Res 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

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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