)76 Store at -20C

TFAM (D5C8) Rabbit mAb



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Applications: WB, W-S, IP, IHC-P, IF- IC, eCLIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 24	Source/Isotype: Rabbit IgG	UniProt ID: #Q00059	Entrez-Gene Id 7019	
Product Usage Information	Aŗ	Application				Dilution	
	We	Western Blotting				1:1000	
	Sir	Simple Western™				1:50 - 1:250	
	lm	Immunoprecipitation				1:50	
	lm	Immunohistochemistry (Paraffin)				1:100 - 1:400	
	Im	Immunofluorescence (Immunocytochemistry)				1:100 - 1:200	
	eC	LIP			1:2	00	
		For more information about eCLIP and the RBP-eCLIP kit, please visit Eclipse Bioinnovations.					
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 / Sensitivity		TFAM (D5C8) Rabbit mAb recognizes endogenous levels of total TFAM protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val225 of human TFAM protein.					
Background	pro (mt mite dep nor TFA effe dep	TFAM (Transcription Factor A, Mitochondrial; aka TCF6) is a member of the high-mobility group (HMG) proteins because it contains two HMG boxes. TFAM is a transcription factor for mitochondrial DNA (mtDNA), and enhances mtDNA transcription in a promoter-specific fashion in the presence of mitochondrial RNA polymerase and transcription factor B (1). Because the majority of ATP production depends on the mitochondrial respiratory chain, maintenance of the mitochondrial genome is critical for normal health. TFAM plays an essential role in the maintenance of mtDNA and thus, ATP production (2). TFAM binds to mtDNA both nonspecifically and in a sequence-specific manner. It is known to have a dual effect on mtDNA: protection of mtDNA and initiation of transcription from mtDNA (3). TFAM attenuates age-dependent impairment of the brain by preventing oxidative stress and mitochondrial dysfunctions in microglia (4).					
Background Refer	2. K 3. V	 Kanki, T. et al. (2004) Mol Cell Biol 24, 9823-34. Kang, D. et al. Mitochondrion 7, 39-44. Watanabe, A. et al. (2011) Cardiovasc Res, Epub ahead of print. Hayashi, Y. et al. (2008) J Neurosci 28, 8624-34. 					

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 BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) eCLIP: eCLIP

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

At Actiopus 2: Zebraiisti B: boville Dg: dog Pg: pig 3c: 3. Celevisiae Ce: C. elegi

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

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