Product datasheet Anti-TFAM Antibody (Clone#ADHC-20) Catalog Number: BM5453



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information			
Product Name	Anti-TFAM Antibody (Clone#ADHC-20)		
Gene Name	TFAM		
Source	Rabbit	Rabbit	
Clonality	Monoclonal		
Isotype	lgG		
Species Reactivity	human		
Tested Application	WB, IHC, ICC/IF, IP		
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.		
Immunogen	A synthesized peptide derived from human mtTFA Binds to the mitochondrial light strand promoter and functions in mitochondrial transcription regulation. Required for accurate and efficient promoter recognition by the mitochondrial RNA polymerase.		
Concentration	500 ug/ml		
Purification	Affinity-chromatography		
Observed MW	24 kDa		
Dilution Ratios	Western blot (WB): 1:50 Immunohistochemistry (IHC): 1:50 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50 ImmunoPrecipitation (IP): 1:50	-200	

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

TFAM(Transcription factor A, mitochondrial), also known as TCF6 or TCF6L2, is a 162-amino acid protein that activates transcription of each mitochondrial DNA(mtDNA) strand by binding to an element of approximately 30 nucleotides present in both the light-strand and the heavy-strand promoters. By Southern blot analysis of restriction enzyme digests of human/Chinese hamster somatic cell hybrid lines, Milatovich et al.(1992) mapped TFAM sequences, which they called MTTF1, to 3 different chromosomes: chromosomes 10, 7p, and 11q. By PCR-based screening of a somatic cell hybrid panel and by fluorescence in situ hybridization, Scott(2007) stated that the sequences mapped to chromosomes 7p(TCF6L1) and 11q(MTTF1, or TCF6L3) are pseudogenes. Larsson et al.(1997) mapped the mouse mitochondrial transcription factor A gene(Tfam) to the central part of mouse chromosome 10. This region exhibits syntenic homology with human 10q21. Mitochondrial transcription factor A is a key activator of mitochondrial transcription in mammals. It also has a role in mitochondrial DNA replication, since transcription

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generates an RNA primer necessary for initiation of mtDNA replication.

Selected Validation Data

