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Datasheet for ABIN3044014 anti-TFAM antibody (C-Term)

5 Images

1 Publication



Overview

Quantity:	100 µg			
Target:	TFAM			
Binding Specificity:	AA 227-246, C-Term			
Reactivity:	Human			
Host:	Rabbit			
Clonality:	Polyclonal			
Conjugate:	This TFAM antibody is un-conjugated			
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))			
Product Details				
Purpose:	Rabbit IgG polyclonal antibody for Transcription factor A, mitochondrial(TFAM) detection. Tested with WB, IHC-P, IHC-F, ICC in Human.			
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human mtTFA(227-246aa RKDLLRRTIKKQRKYGAEEC).			
Sequence:	RKDLLRRTIK KQRKYGAEEC			
lsotype:	lgG			
Cross-Reactivity (Details):	No cross reactivity with other proteins.			
Characteristics:	Rabbit IgG polyclonal antibody for Transcription factor A, mitochondrial(TFAM) detection. Tested with WB, IHC-P, IHC-F, ICC in Human. Gene Name: transcription factor A, mitochondrial			

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Product Details

	Protein Name: Transcription factor A, mitochondrial				
Purification:	Immunogen affinity purified.				
Target Details					

Target:	TFAM				
Alternative Name:	TFAM (TFAM Products)				
Background:	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 the				
	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 generates an RNA primer necessary for initiation of mtDNA replication.				
	Synonyms: anscription factor 6-like 1 antibody Mitochondrial transcription factor 1				
	antibody mitochondrial transcription factor A antibody MtTF1 antibody mtTFA antibody TCF 6				
	antibody TCF-6 antibody TCF6 antibody TCF6L1 antibody TCF6L2 antibody TCF6L3				
	antibody TFAM antibody TFAM_HUMAN antibody Transcription factor 6 antibody Transcription				
	factor 6 like 2(mitochondrial transcription factor) antibody Transcription factor 6 like 2				
	antibody Transcription factor 6-like 2 antibody transcription factor 6-like 3				
	antibody Transcription factor A, mitochondrial antibody Transcription factor A, mitochondrial				
	precursor antibody				
UniProt:	Q00059				
Pathways:	Chromatin Binding				

Application Details

Application Notes:

WB: Concentration: 0.1-0.5 $\mu\text{g}/\text{mL},$ Tested Species: Human

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Application Details

	IIIO Di Concentrationi O E 1 ug/ml. Testad Oraciani Uurren. Enitere Detrivuel Industrati Detlinu					
	IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling					
	the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.					
	IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human					
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be					
	fit for the product based on sequence similarities. Other applications have not been tested.					
	Optimal dilutions should be determined by end users.					
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by					
	ABIN921231 in IHC(P), IHC(F) and ICC.					
Restrictions:	For Research Use only					
Handling						
Format:	Lyophilized					
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.					
Concentration:	500 µg/mL					
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.					
Preservative:	Thimerosal (Merthiolate), Sodium azide					
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND					
	HAZARDOUS SUBSTANCES which should be handled by trained staff only.					
Handling Advice:	Avoid repeated freezing and thawing.					
Storage:	4 °C/-20 °C					
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.					
	It can also be aliquotted and stored frozen at -20 $^\circ C$ for a longer time. Avoid repeated freezing					
	and thawing.					
Expiry Date:	12 months					
Publications						
Product cited in:	Wu, Zhao, Xiao, Peng, Chen, He: "Roles of mitochondrial transcription factor A and					
	microRNA-590-3p in the development of colon cancer." in: Molecular medicine reports, Vol. 14,					

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Images



Western Blotting

Image 1. Western blot analysis of mtTFA using anti- mtTFA antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human A431 whole cell lysates, Lane 3: human HL-60 whole cell lysates, Lane 4: human CCRF-CEM whole cell lysates, Lane 5: human 293T whole cell lysates, Lane 6: human SW620 whole cell lysates. After Electrophoresis, proteins were transferred to а Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit antimtTFA antigen affinity purified polyclonal antibody (Catalog #) at 0.5 $\mu\text{g/mL}$ overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for mtTFA at approximately 24KD. The expected band size for mtTFA is at 29KD.

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Images

		10-07			
100KD -	12	34	56	78	9
70KD -					
55KD -					
35KD-					
25KD-					-
15KD -					

Immunohistochemistry

Image 2. Anti-mtTFA antibody, ICC ICC: HELA Cell

Western Blotting

Image 3. Lane 9: HUT Cell Lysate

Please check the product details page for more images. Overall 5 images are available for ABIN3044014.