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Datasheet for ABIN969061 anti-CREB1 antibody

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Overview

Quantity:	100 µL
Target:	CREB1
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CREB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human CREB1 expressed in E. coli.
Clone:	5G3
lsotype:	lgG1
Purification:	purified

Target Details

Target:	CREB1	
Alternative Name:	CREB1 (CREB1 Products)	
Background:	Description: This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive	
	element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway.	

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	Alternate splicing of this gene results in two transcript variants encoding different isoforms.
	(provided by RefSeq)
	Aliases: CREB, MGC9284, CREB1
Molecular Weight:	43 kDa
Gene ID:	1385
HGNC:	1385
Pathways:	TLR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
	Signaling Pathway, Thyroid Hormone Synthesis, Activation of Innate immune Response,
	Myometrial Relaxation and Contraction, Regulation of Cell Size, Toll-Like Receptors Cascades,
	G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma, Positive
	Regulation of fat Cell Differentiation
Application Details	
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage
Publications	
Product cited in:	Helisalmi Väkevä Hiltunen Soininen: "Elanking markers of ovstatin c (CST3) gene do not show

Product cited in: Helisalmi, Väkevä, Hiltunen, Soininen: "Flanking markers of cystatin c (CST3) gene do not show association with Alzheimer's disease." in: **Dementia and geriatric cognitive disorders**, Vol. 27, Issue 4, pp. 318-21, (2009) (PubMed).

Rehman, Fought, Solomon: "N-acetylcysteine effect on serum creatinine and cystatin C levels in

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Issue 6, pp. 1610-4, (2008) (PubMed).

Images



Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffinembedded prostate cancer tissues (left) and submaxillary tumor tissues (right) using CREB1 mouse mAb with DAB staining.



ELISA Result 1.6 1.4 O.D. Reading 1.2 1 0.8 0.6 0.4 0.2 0 10^-3 10^-4 10^-2 10^-5 Serial Dilutions of Antibody Control Antigen = 100ng -Antigen= 10ng Antigen= 50ng Antigen= 100ng

Western Blotting

Image 2. Western blot analysis using CREB1 mouse mAb against K562 (1), Jurkat (2), L1210 (3), HEK293 (4), A431 (5), Hela (6), Cos7 (7), PC-12 (8), and NIH/3T3 (9) cell lysate.

ELISA

Image 3. Red: Control Antigen (100 ng), Purple: Antigen (10 ng), Green: Antigen (50 ng), Blue: Antigen (100 ng),

Please check the product details page for more images. Overall 4 images are available for ABIN969061.

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Successfully validated (Western Blotting (WB))

by Instituto de Parasitología y Biomedicina López-Neyra Report Number: 100101 Date: Dec 23 2016

Target:	CREB1
Lot Number:	110517
Method validated:	Western Blotting (WB)
Positive Control:	primary mouse microglia
Negative Control:	siRNA knock-down of CREB1 in primary mouse microglia
Notes:	Passed. ABIN969061 specifically recognizes Creb1 in primary mouse microglia lysates.
Primary Antibody:	ABIN969061
Secondary Antibody:	anti-mouse HRP-conjugated antibody (DakoCytomation, P0447, lot 00058737)
Protocol:	 Primary mouse microglia are grown in DMEM (Invitrogen), supplemented with 10% foetal bovine serum (Gibco), 10% horse serum and penicillin and streptomycin (Gibco), at 37°C and 5% CO2 in a 12-well dish. Transfect cells with 0.05nmol mouse Creb1 Silencer Select siRNA (ThermoFisher Scientific, ASO1093M, ASO10982 and ASO109CG, lot AMO04BXD) using Lipofectamine 3000 (Invitrogen) following the manufacturer's instructions. Lyse cells in 25µl per well cold lysis buffer (10mM Tris-HCl pH 8.0, 150mM NaCl, 1% Nonidet-P40, 1mM EDTA, 10mM NaF, 1mM Na₃VO₄, containing protease inhibitors (Sigma)). Determine total protein content of the lysates using Bradford assay (Bio-Rad, 500-0006, lot 111832). Denature 5µg of total protein for 5min at 95°C in 5µl Laemmli SDS sample buffer and subsequently separate them on a denaturing, freshly cast 10% SDS-PAGE for 1h at 140V. Transfer proteins onto PVDF membrane (Pall Life Sciences, 75696G, lot TO3225) with a semi-dry Western blotting system for 50min at 60mA. Block the membrane with TBST (TBS, 0.1% Tween) containing 5% milk ON at 4°C. Incubation with primary mouse anti-CREB1 antibody (antibodies-online, ABIN969061, lot 110517) diluted 1:10000 in TBST containing 5% milk for 1h at RT. Wash membrane 5x 5min with TBST. Incubation, P0447, lot 00058737) diluted 1:2000 in TBST containing 5% milk for 1h at RT. Wash membrane 5x 5min with TBST and 3x 5min with TBS.

	Reveal protein bands using self-made ECL Western Blotting Detection Reagent with Curix
	RP2 Plus medical X-ray films (AGFA Health Care, ENKMV, lot 79040074) on an AGFA Health
	Care Curix60-developer.
	• Strip membranes using RestoreTM Western Blot Stripping Buffer (Thermo Scientific, 21059,
	lot NA 164269) and subsequently incubate with a GAPDH loading control antibody (Sigma,
	G9545, lot 049K4787) diluted 1:10000 and with anti-rabbit horseradish peroxidase-
	conjugated secondary antibodies (DakoCytomation, P0448, lot 00055814) diluted 1:2000.
	Wash and reveal the membrane as described above.
Experimental Notes:	The CREB1 antibody ABIN969061 reveals a protein of the expected molecular weight of murine
	Creb1 in lysates of primary mouse microalia. The protein band's intensity decreases upon
	siRNA knockdown.

Image for Validation report #100101



Validation image no. 1 for anti-cAMP Responsive Element Binding Protein 1 (CREB1) antibody (ABIN969061)

Primary mouse microglia were transfected with Creb1 siRNA and Creb1 was revealed using ABIN969061 as described in the protocol section (lanes 1, 2, and 3). Lysates from cells transfected with scrambled siRNA (lane 4) and untransfected cells (lane 5) served as negative controls.