Datasheet for ABIN7148815

anti-CREB3 antibody (AA 1-230)

3 Images

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Overview

Quantity:	100 µL
Target:	CREB3
Binding Specificity:	AA 1-230
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CREB3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Cyclic AMP-responsive element-binding protein 3 protein (1-230AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity purified

Target Details

Target:	CREB3
Alternative Name:	CREB3 (CREB3 Products)
Background:	Background: Endoplasmic reticulum (ER)-bound transcription factor that plays a role in the unfolded protein response (UPR). Involved in cell proliferation and migration, tumor suppression

	and inflammatory gene expression. Plays also a role in the human immunodeficiency virus type 1 (HIV-1) virus protein expression and in the herpes simplex virus-1 (HSV-1) latent infection and reactivation from latency. Isoform 2 plays a role in the unfolded protein response (UPR). Isoform 2 acts as a positive regulator of LKN-1/CCL15-induced chemotaxis signaling of leukocyte cell migration. Isoform 2 may play a role as a cellular tumor suppressor that is targeted by the hepatitis C virus (HSV) core protein. Isoform 2 represses the VP16-mediated transactivation of immediate early genes of the HSV-1 virus by sequestring host cell factor-1 HCFC1 in the ER membrane of sensory neurons, thereby preventing the initiation of the replicative cascade leading to latent infection. Isoform 3 functions as a negative transcriptional regulator in ligand-induced transcriptional activation of the glucocorticoid receptor NR3C1 by recruiting and activating histone deacetylases (HDAC1, HDAC2 and HDAC6). Isoform 3 decreases the acetylation level of histone H4. Isoform 3 does not promote the chemotactic activity of leukocyte cells. Processed cyclic AMP-responsive element-binding protein 3: acts as a transcription factor that activates unfolded protein response (UPR) target genes during endoplasmic reticulum (ER) stress response. Promotes cell survival against ER stress-induced apoptotic cell death during UPR. Activates transcription from CRE and C/EBP-containing reporter genes. Induces transcriptional activation of chemokine receptors. Activates transcription of genes required for reactivation of the latent HSV-1 virus. Down-regulates Tat-dependent transcription of the HIV-1 LTR by interacting with HIV-1 Tat. It\\\'s transcriptional activity is inhibited by CREBZF in a HCFC1-dependent manner, by the viral transactivator protein VP16 and by the HCV core protein. Binds DNA to the cAMP response element (CRE) (consensus: 5\\\'-GTGACGT[AG][AG]-3\\\') and C/EBP sequences present in many viral and cellular promoters. Binds to the unfolded protein respons element (UPRE) consensus sequences sites. Binds DNA to the 5\\\'-CCAC[GA]-3\\\'half of ERSE II (5\\\'-ATTGG-N-CCACG-3\\\'). Associates with chromatin to the HERPUD1 promoter. Aliases: CREB3 antibody, LZIPCyclic AMP-responsive element-binding protein 3 antibody, CREB-3 antibody, cAMP-responsive element-binding protein 3 antibody, Leucine zipper protein antibody, Luman antibody, Transcription factor LZIP-alpha) [Cleaved into: Processed cyclic AMP-responsive element-binding protein 3 antibody, N-terminal Luman antibody, Transcriptionally active form)] antibody
UniProt:	O43889
Pathways:	Thyroid Hormone Synthesis, Myometrial Relaxation and Contraction, ER-Nucleus Signaling, Maintenance of Protein Location, Unfolded Protein Response

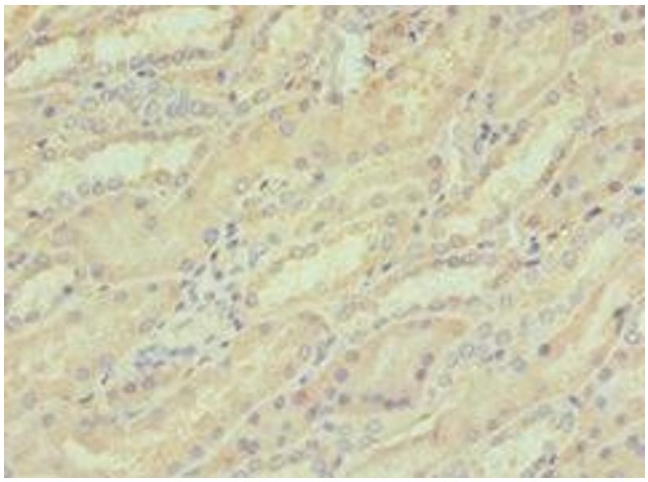
Application Details

Application Notes:	Recommended dilution: WB:1:500-1:1000, IHC:1:20-200,
Restrictions:	For Research Use only

Handling

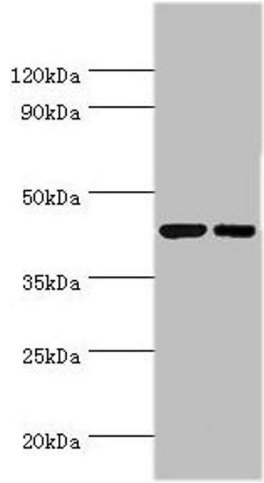
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



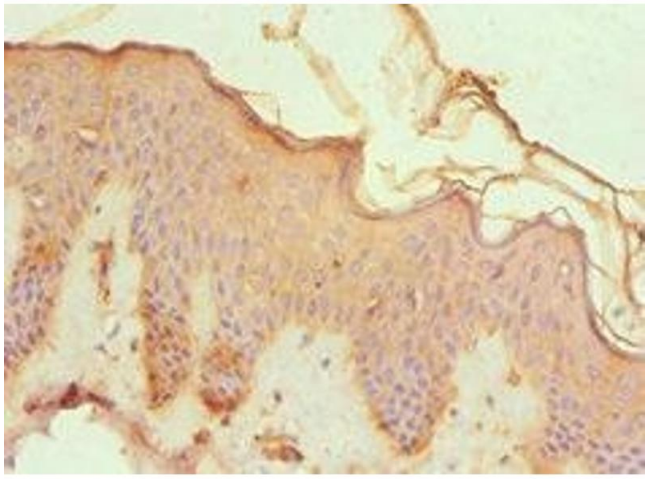
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7148815 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: Cyclic AMP-responsive element-binding protein 3 antibody at 6 µg/mL Lane 1: Jurkat whole cell lysate Lane 2: HepG2 whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 44, 42, 40 kDa Observed band size: 44 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human skin tissue using ABIN7148815 at dilution of 1:100