

anti- CREB3 antibody

Product Information

Catalog No.:	FNab01962
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

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 sequestering 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

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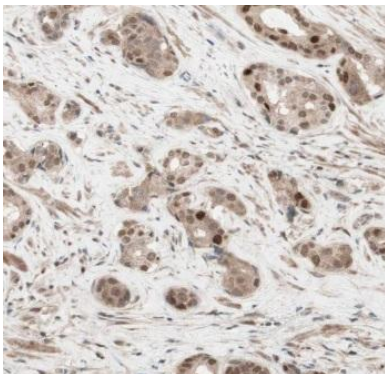
HIV-1 Tat. Its transcriptional activity is inhibited by CREBZF in a HCFC1-dependent manner, by the viral transactivator protein VP16 and by the HCV core protein. Binds DNA to the cAMP response element(CRE)(consensus: 5'-GTGACGT[AG][AG]-3') and C/EBP sequences present in many viral and cellular promoters. Binds to the unfolded protein response 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.

Immunogen information

Immunogen: cAMP responsive element binding protein 3
Synonyms: LZIP
Observed MW: 40-64 kDa
Uniprot ID : O43889

Application

Reactivity: Human
Tested Application: ELISA, WB, IHC, IP
Recommended dilution: WB: 1:500-1:2000; IP: 1:200-1:1000; IHC: 1:20-1:200
Image:



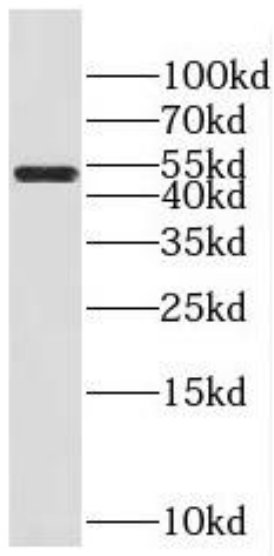
Immunohistochemistry of paraffin-embedded human prostate cancer using FNab01962(CREB3 antibody) at dilution of 1:100

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PC-3 cells were subjected to SDS PAGE followed by western blot with FNab01962(CREB3 antibody) at dilution of 1:300