

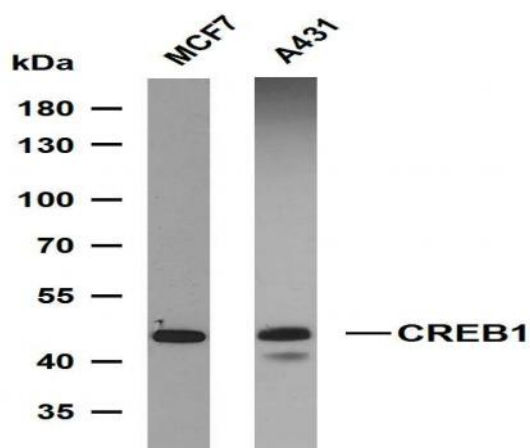
**CREB1 (PTR2317) mouse mAb**

<b>Catalog No :</b>	YM3428
<b>Reactivity :</b>	Human;Mouse;Rat;
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	CREB-1
<b>Fields :</b>	>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Adrenergic signaling in cardiomyocytes;>>Osteoclast differentiation;>>Antigen processing and presentation;>>TNF signaling pathway;>>Circadian rhythm;>>Circadian entrainment;>>Thermogenesis;>>Cholinergic synapse;>>Dopaminergic synapse;>>Insulin secretion;>>Estrogen signaling pathway;>>Melanogenesis;>>Thyroid hormone synthesis;>>Glucagon signaling pathway;>>Renin secretion;>>Aldosterone synthesis and secretion;>>Relaxin signaling pathway;>>Cortisol synthesis and secretion;>>Parathyroid hormone synthesis, secretion and action;>>Insulin resistance;>>Cushing syndrome;>>Growth hormone synthesis, secretion and action;>>Vasopressin-regulated water reabsorption;>>Huntington disease;>>Prion disease;>>Cocaine addiction;>>Amphetamine addiction;>>Alcoholism;>>Tuberculosis;>>Hepatitis B;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Human
<b>Gene Name :</b>	CREB1
<b>Protein Name :</b>	Cyclic AMP-responsive element-binding protein 1
<b>Human Gene Id :</b>	1385
<b>Human Swiss Prot No :</b>	P16220
<b>Mouse Swiss Prot No :</b>	Q01147
<b>Immunogen :</b>	Recombinant Protein of human CREB-1 AA range: 100-200
<b>Specificity :</b>	This antibody detects endogenous levels of CREB1 protein.
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

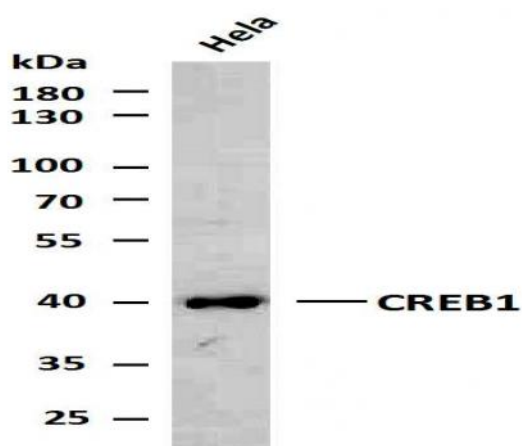
<b>Source :</b>	Mouse, Monoclonal/IgG1, kappa
<b>Dilution :</b>	WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
<b>Purification :</b>	Protein G
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	36kD
<b>Observed Band :</b>	45kD
<b>Cell Pathway :</b>	Antigen processing and presentation;Melanogenesis;Huntington's disease;Prostate cancer;
<b>Background :</b>	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. Alternate splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016],
<b>Function :</b>	disease:A chromosomal aberration involving CREB1 is associated with angiomatoid fibrous histiocytoma (AFH) [MIM:612160]. Translocation t(2;22)(q33;q12) with CREB1 generates a EWSR1/CREB1 fusion gene that is most common genetic abnormality in this tumor type.,function:This protein binds the cAMP response element (CRE), a sequence present in many viral and cellular promoters. CREB stimulates transcription on binding to the CRE. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Implicated in synchronization of circadian rhythmicity.,PTM:Stimulated by phosphorylation. Phosphorylation of both Ser-133 and Ser-142 in the SCN regulates the activity of CREB and participates in circadian rhythm generation. Phosphorylation of Ser-133 allows CREBBP binding (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.,similarit
<b>Expression :</b>	Eye,Placenta,Spleen,Testis,
<b>Tag :</b>	hot
<b>Sort :</b>	204
<b>No4 :</b>	1

**Host :** Mouse**Modifications :** Unmodified

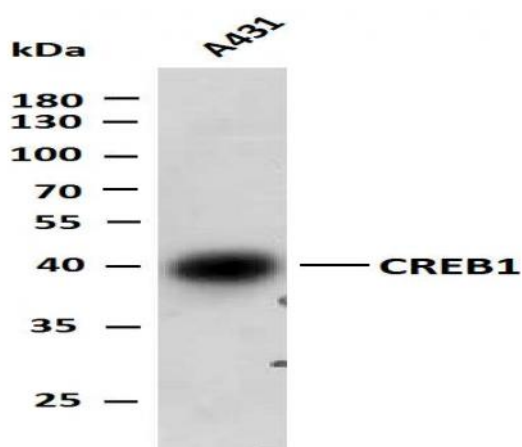
## Products Images



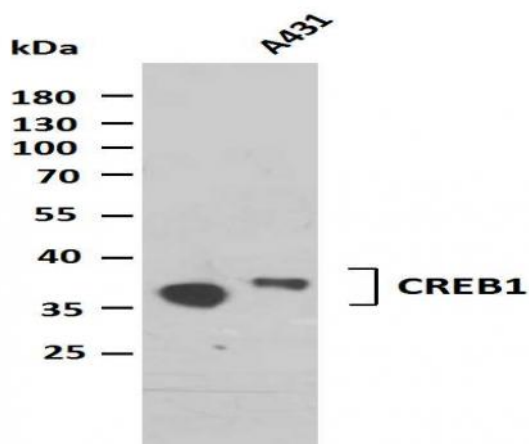
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CREB1 (PTR2317) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: MCF7 Lane 2: A431



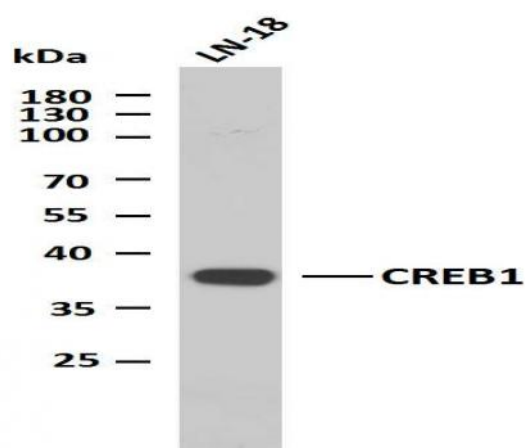
Whole cell lysates of HeLa were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CREB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa



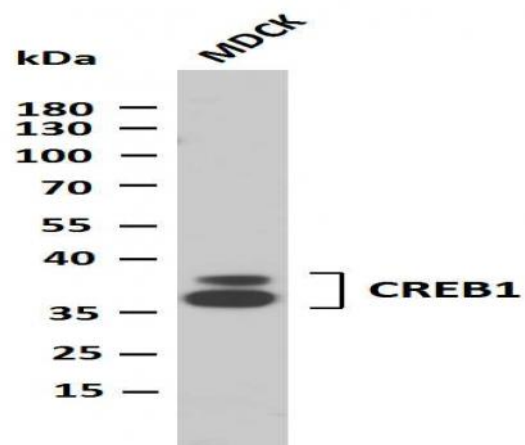
Whole cell lysates of A431 were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CREB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: A431



Various cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CREB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 1: A431



Whole cell lysates of LN-18 were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CREB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: LN-18



Whole cell lysates of MDCK were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CREB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: MDCK

Western blot analysis of 1) A431, 2) 3T3 using CREB-1 Monoclonal Antibody.

