

**CREB-1 (phospho Thr100) Polyclonal Antibody**

<b>Catalog No :</b>	YP0405
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;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 Gene Id :</b>	12912
<b>Mouse Swiss Prot No :</b>	Q01147
<b>Rat Gene Id :</b>	81646
<b>Rat Swiss Prot No :</b>	P15337

<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human CREB around the phosphorylation site of Thr100. AA range:71-120
<b>Specificity :</b>	Phospho-CREB-1 (T100) Polyclonal Antibody detects endogenous levels of CREB-1 protein only when phosphorylated at T100.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	42kD
<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

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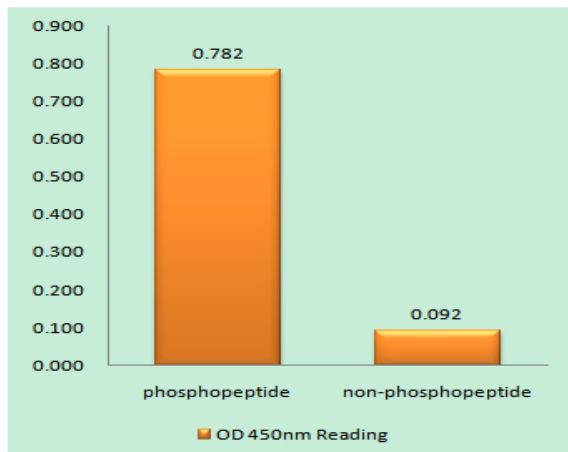
**Subcellular Location :**

Nucleus .

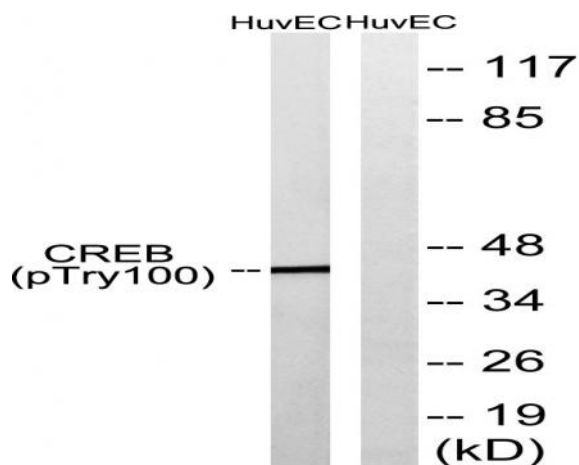
**Expression :**

Eye,Placenta,Spleen,Testis,

## Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CREB (Phospho-Thr100) Antibody



Western blot analysis of lysates from HUVEC cells treated with etoposide 25uM 24H, using CREB (Phospho-Thr100) Antibody. The lane on the right is blocked with the phospho peptide.