Best Tools for immunology Research

CREB-2 Polyclonal Antibody

Catalog No :	YT1102
Reactivity :	Human;Mouse
Applications :	WB;ELISA
Target :	CREB-2
Fields :	>>MAPK signaling pathway;>>cGMP-PKG signaling pathway;>>Mitophagy - animal;>>Protein processing in endoplasmic reticulum;>>PI3K-Akt signaling pathway;>>Apoptosis;>>Longevity regulating pathway;>>Adrenergic signaling in cardiomyocytes;>>TNF signaling pathway;>>Long-term potentiation;>>Neurotrophin signaling pathway;>>Cholinergic synapse;>>Dopaminergic synapse;>>Insulin secretion;>>GnRH signaling pathway;>>Estrogen signaling pathway;>>Thyroid hormone synthesis;>>Glucagon signaling pathway;>>Aldosterone synthesis and secretion;>>Relaxin signaling pathway;>>Cortisol synthesis and secretion;>>Parathyroid hormone synthesis, secretion and action;>>Non-alcoholic fatty liver disease;>>Cushing syndrome;>>Growth hormone synthesis, secretion and action;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Cocaine addiction;>>Amphetamine addiction;>>Alcoholism;>>Hepatitis B;>>Human cytomegalovirus infection;>>Hu
Gene Name :	ATF4
Protein Name :	Cyclic AMP-dependent transcription factor ATF-4
Human Gene Id :	468
Human Swiss Prot No :	P18848
Mouse Gene Id :	11911
Mouse Swiss Prot No :	Q06507
Immunogen :	Synthesized peptide derived from CREB-2 . at AA range: 160-240
Specificity :	CREB-2 Polyclonal Antibody detects endogenous levels of CREB-2 protein.

Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	38kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;Long-term potentiation;Neurotrophin;GnRH;Prostate cancer;
Background :	activating transcription factor 4(ATF4) Homo sapiens This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication. [provid
Function :	function:Transcriptional activator. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. It binds to a Tax-responsive enhancer element in the long terminal repeat of HTLV-I.,similarity:Belongs to the bZIP family.,similarity:Contains 1 bZIP domain.,subcellular location:Colocalizes with GABBR1 in hippocampal neuron dendritic membranes.,subunit:Interacts with the C-terminal region of GABBR1 via the leucine zipper of its C-terminal bZIP domain. Interacts with the C-terminal region of GABBR2 (By similarity). Binds DNA as a homo-or heterodimer. Interacts with the N-terminal region of CEP290.,
Subcellular Location :	Nucleus . Nucleus speckle . Cytoplasm . Cell membrane . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Colocalizes with GABBR1 in hippocampal neuron dendritic membranes (By similarity). Colocalizes with NEK6 at the centrosome (PubMed:20873783). Recruited to nuclear speckles following interaction with EP300/p300 (PubMed:16219772). .

Expression :	Bladder,Colon,Fibroblast,Leukemic T-cell,Lung,Ovary,Placenta,

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