

CREB-2 (phospho Ser219) Polyclonal Antibody

Catalog No: YP0503

Reactivity: Human; Mouse

Applications: WB;ELISA

Gene Name: ATF4

Protein Name: Cyclic AMP-dependent transcription factor ATF-4

Human Gene ld: 468

Human Swiss Prot

Prot P18848

No:

Mouse Gene ld: 11911

Mouse Swiss Prot

Q06507

No:

Immunogen: Synthesized phospho-peptide around the phosphorylation site of human

CREB-2 (phospho Ser219)

Specificity: Phospho-CREB-2 (S219) Polyclonal Antibody detects endogenous levels of

CREB-2 protein only when phosphorylated at S219.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: Western Blot: 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: -20°C/1 year

1/3



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

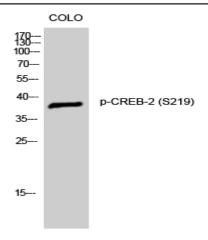
family.,similarity:Contains 1 bZIP domain.,subcellular location:Colocalizes with GABBR1 in hippocampal neuron dendritic membranes.,subunit:Interacts with the C-terminal region of GABBR1 via the leucine zipper of its C-terminal bZIP domain. Interacts with the C-terminal region of GABBR2 (By similarity). 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,

Products Images



Western Blot analysis of CoLo cells using Phospho-CREB-2 (S219) Polyclonal Antibody