À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-CREB1

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Antibodies | ELISA kits | Proteins
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Numéro de catalogue:12208-1-AP Phare 90 Publications

Informations de base

Numéro de catalogue:
12208-1-AP

Taille:
150ul , Concentration: 700 μg/ml by Nanodrop;

Hôte:
Lapin

Isotype:
IgG

Immunogen Catalog Number:
AG2852

Numéro d'acquisition GenBank:
BC010636

Identification du gène (NCBI):
1385

Nom complet:
cAMP responsive element binding protein 1

MW calculé
341 aa, 35 kDa

MW observés:
43-46 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:2000-1:12000
IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB
IHC 1:50-1:500
IF 1:50-1:500

Applications

Applications testées:
FC, IF, IHC, IP, WB, ELISA

Demandes citées:
chIP, IF, IHC, IP, RIP, WB

Spécificité de l'espèce:
Humain, rat, singe, souris

Espèces citées:
Humain, poulet, rat, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) À défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : cellules HEK-293, cellules A431, cellules COS-7, cellules HeLa, cellules HepG2, cellules HL-60, cellules Jurkat, cellules K-562, cellules MCF-7, cellules NIH/3T3, cellules PC-12, cellules PC-3, tissu cérébral de rat, tissu cérébral de souris, tissu pulmonaire de souris

IP : cellules HEK-293,

IHC : tissu de cancer du col de l'utérus humain, tissu cérébral de souris, tissu de cancer de la prostate humain, tissu thyroïdien humain

IF : cellules HeLa, cellules HEK-293

Informations générales

CREB1, also named as CREB, belongs to the bZIP family, containing one bZIP domain and one KID (kinase-inducible) domain. 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. This protein is 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. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. CREB1 is sumoylated by SUMO1. Sumoylation on Lys-304, but not on Lys-285, is required for nuclear localization of this protein. Sumoylation is enhanced under hypoxia, promoting nuclear localization and stabilization. Defects in CREB1 may be a cause of angiomatoid fibrous histiocytoma (AFH), a distinct variant of malignant fibrous histiocytoma that typically occurs in children and adolescents and is manifest by nodular subcutaneous growth. A chromosomal aberration involving CREB1 is found in a patient with angiomatoid fibrous histiocytoma. Translocation t(2;22)(q33;q12) with CREB1 generates a EWSR1/CREB1 fusion gene that is most common genetic abnormality in this tumor type. CREB1 exists some isoforms and range of calculated molecular weight of isoforms are 35-37 kDa and 25 kDa, but the modified CREB1 protein is about 43 kDa (PMID: 25883219).

Publications notables

Autrice	Pubmed ID	Journal	Application
Yu Wang	34658758	Front Neurosci	WB
YanHua Fan	36174847	Fitoterapia	WB
Chenxia Sheng	29057264	Biomed Res Int	WB

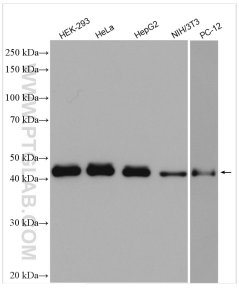
Stockage

Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

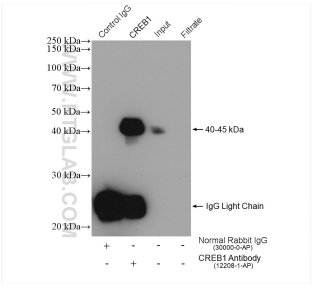
***** Les 20ul contiennent 0,1% de BSA.**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

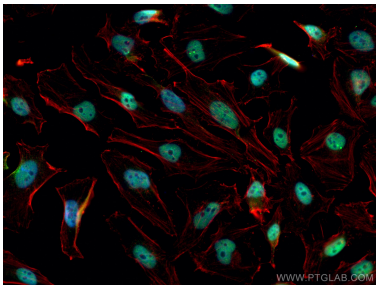
Données de validation sélectionnées



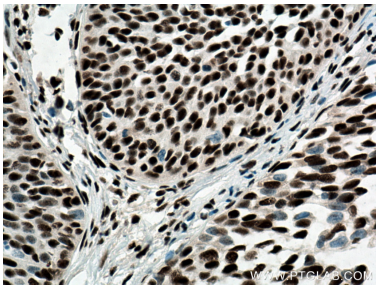
Various lysates were subjected to SDS PAGE followed by western blot with 12208-1-AP (CREB1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



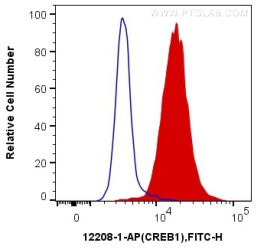
IP result of anti-CREB1(IP:12208-1-AP, 4ug; Detection:12208-1-AP 1:2000) with HEK-293 cells lysate 1360 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CREB1 antibody (12208-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 12208-1-AP (CREB1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HEK-293 cells were intracellularly stained with 0.25 ug Anti-Human CREB1 (12208-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.25 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).