CREB-1 (Phospho Ser133) Rabbit pAb

CatalogNo: YP0075 Orthogonal Validated Comparable Abs

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Pig

Applications
- WB,IHC,IF,IP,ELISA

MW
- 37kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IF 1:50-200
WB 1:500-1:2000
IHC 1:100-1:300
IP 2-5 ug/mg lysate
ELISA 1:10000
Not yet tested in other applications

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human CREB around the phosphorylation site of Ser133. AA range:100-149

Specificity	Phospho-CREB-1 (S133) Polyclonal Antibody detects endogenous levels of CREB-1 protein only when phosphorylated at S133.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RPsYR

Target Information

Gene name	CREB1
Protein Name	Cyclic AMP-responsive element-binding protein 1

Organism	Gene ID	UniProt ID
Human	1385;	P16220;
Mouse	12912;	Q01147;
Rat	81646;	P15337;

Cellular Localization	Nucleus .
Tissue specificity	Eye ,Placenta ,Spleen ,Testis ,
Function	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. Transciption 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. ,similarity:Belongs to the bZIP family. ,similarity:Contains 1 bZIP domain. ,similarity:Contains 1 KID (kinase-inducible) domain. ,subunit:Interacts with PPRC1. Binds DNA as a dimer. This dimer is stabilized by magnesium ions. Interacts , through the bZIP domain , with the coactivators TORC1/CRTC1 , TORC2/CRTC2 and TORC3/CRTC3. When phosphorylated on Ser-133 , binds CREBBP. ,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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