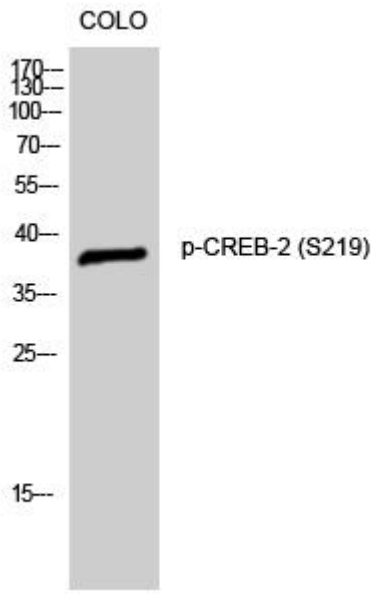
CREB-2 (Phospho Ser219) Rabbit pAb

Catalog No	YP-Ab-18824
Isotype	IgG
Reactivity	Human,Mouse
Applications	WB;ELISA
Gene Name	ATF4
Protein Name	Cyclic AMP-dependent transcription factor ATF-4
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.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):NDsGI
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500-1/2000; ELISA 1/10000; Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ATF4 ; CREB2 ; TXREB ; Cyclic AMP-dependent transcription factor ATF-4 ; cAMP-dependent transcription factor ATF-4 ; Activating transcription factor 4 ; Cyclic AMP-responsive element-binding protein 2 ; CREB-2 ; cAMP-responsive element-binding prot
Observed Band	38kD
Calculated Molecular Weight	
Cell Pathway	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). .

Tissue Specificity	
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.,
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
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



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