

Product datasheet for **AP01566PU-N**

CREB1 pSer133 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/200. Immunoprecipitation: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of CREB pSer133 protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 with 15 mM Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 38 kDa
Gene Name:	cAMP responsive element binding protein 1
Database Link:	Entrez Gene 1385 Human P16220



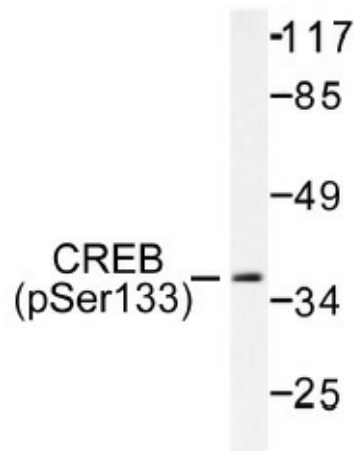
Background:

Eukaryotic gene transcription is regulated by sequence-specific transcription factors that bind modular CIS acting promoter and enhancer elements. The ATF/CREB transcription factor family binds the palindromic cAMP response element (CRE) octanucleotide TGACGTCA. The ATF/CREB family includes CREB-1, CREB-2 (also designated ATF-4), ATF-1, ATF-2 and ATF-3. This family of proteins contain highly divergent N-terminal domains, but share a C-terminal leucine zipper for dimerization and DNA binding. Although CREB can bind to DNA in an unphosphorylated state, it cannot activate transcription. Phosphorylation of CREB on Ser 133 by protein kinase A facilitates its interaction with the 265 kDa CREB-binding protein (CBP) and activates the basal transcription complex. CREB functions in neoglucogenesis through interactions with the nuclear coactivator PGC-1. CREB may play a role in the pathogenesis of type II diabetes and dilated cardiomyopathy. The gene encoding CREB-1 maps to human chromosome 2q32.3-q34.

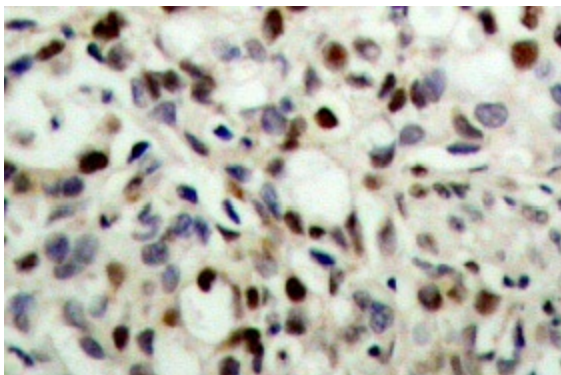
Synonyms:

CREB-1

Product images:



Western blot (WB) analysis of CREB pSer133 antibody (Cat.-No.: AP01566PU-N) in extracts from HeLa cells.



Immunohistochemistry (IHC) analyzes of CREB pSer133 antibody (Cat.-No.: AP01566PU-N) in paraffin-embedded human breast carcinoma tissue.