

## Product datasheet for **AP02351PU-S**

### CREB1 pSer133 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Suitable for use in Western blot (1:500~1:1000) and Immunohistochemistry (1:50~1:100).
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human CREB around the phosphorylation site of serine 133 (R-P-SP-Y-R).
Specificity:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. CREB (phospho-Ser133) antibody detects endogenous levels of CREB only when phosphorylated at serine 133.
Formulation:	Phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	cAMP responsive element binding protein 1
Database Link:	<a href="#">Entrez Gene 1385 Human P16220</a>



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**Background:**

Cyclic AMP Response Element Binding protein (CREB) is a basic / leucine zipper transcription factor that binds the cyclic AMP response element (CRE) and activates transcription in response to a variety of extracellular signals including neurotransmitters, hormones, membrane depolarization, and growth and neurotrophic factors. Activation of CREB is dependent upon the phosphorylation of serine 133. Phosphorylation occurs via p44 / 42 MAP kinase and p90RSK and also via p38 MAP kinase and MSK 1. Although CREB will bind DNA independent of its phosphorylation state, only the phosphorylated form is competent as a transcription factor. CREB binding protein (CBP), a transcriptional coactivator that directly interacts with CREB, binds to CREB in the region of serine 133. CREB appears to play an important role in learning and memory. CREB knock out mice show diminished learning ability.

**Synonyms:**

CREB-1

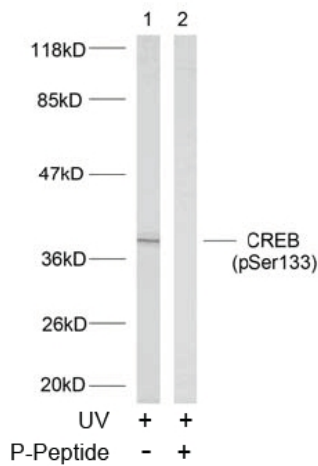
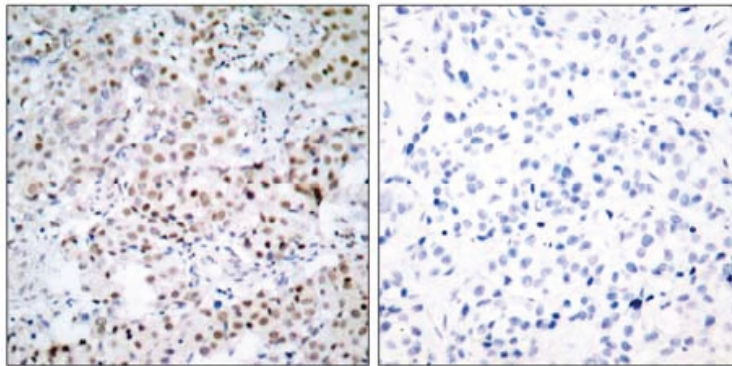
**Product images:**


Figure 2. Western blot analysis of extracts from HeLa cells using CREB (phospho-Ser133) antibody.



P-Peptide                      -                      +

Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREB (phospho-Ser133) antibody.