

**Anti-CREB (pS142) Antibody**  
Rabbit polyclonal antibody to CREB (pS142)  
Catalog # AP60558**Specification**

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**Anti-CREB (pS142) Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P16220</a>
Other Accession	<a href="#">Q01147</a>
Reactivity	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Bovine, SARS
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35136

**Anti-CREB (pS142) Antibody - Additional Information****Gene ID** 1385**Other Names**

Cyclic AMP-responsive element-binding protein 1; CREB-1; cAMP-responsive element-binding protein 1

**Target/Specificity**

Recognizes endogenous levels of CREB (pS142) protein.

**Dilution**WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)  
IF~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-CREB (pS142) Antibody - Protein Information****Name** CREB1**Function**Phosphorylation-dependent transcription factor that stimulates transcription upon binding to the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters (By similarity). Transcription activation is enhanced by the TORC coactivators which act independently of Ser-119 phosphorylation (PubMed: <http://www.uniprot.org/citations/14536081> target="\_blank">14536081</a>). Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells (By similarity).

Regulates the expression of apoptotic and inflammatory response factors in cardiomyocytes in response to ERFE-mediated activation of AKT signaling (By similarity).

#### Cellular Location

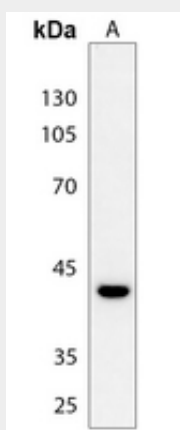
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00312, ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:12552083}

#### Anti-CREB (pS142) Antibody - Protocols

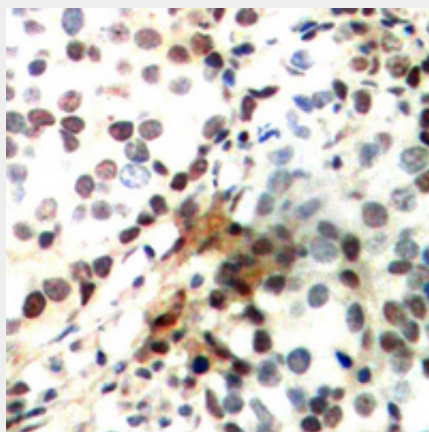
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-CREB (pS142) Antibody - Images

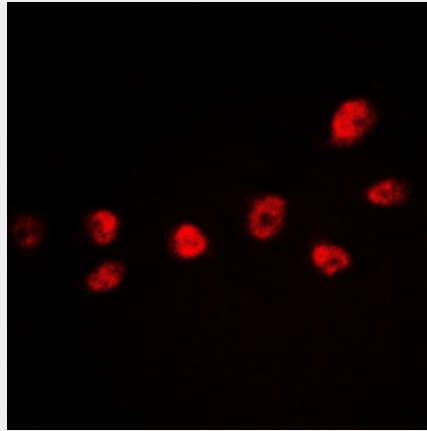


Western blot analysis of CREB (pS142) expression in mouse heart (A) whole cell lysates.



Immunohistochemical analysis of CREB (pS142) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen

retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CREB (pS142) staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

#### **Anti-CREB (pS142) Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CREB. The exact sequence is proprietary.