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PRODUCT DATASHEET

# Anti-CREB (Ser-271), Phosphospecific Antibody

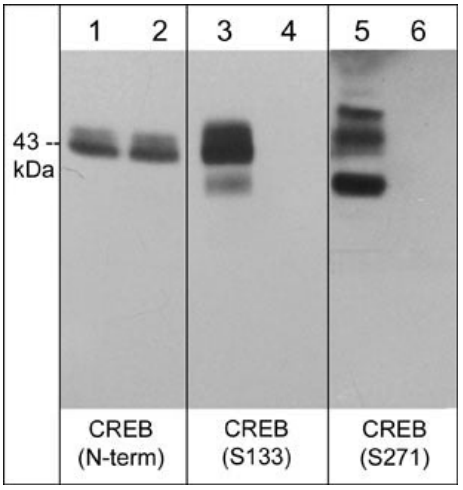
phosphosolutions ANTIBODIES THAT WORK

## Product Details

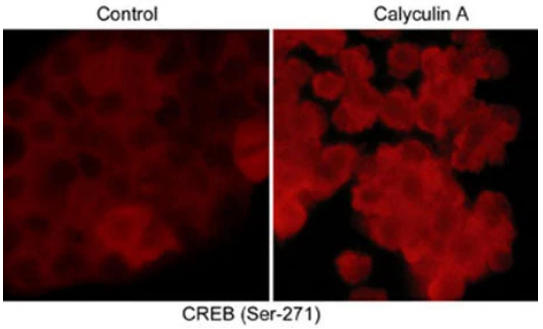
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|---|---|
| **Available Variants** | 100 µL (SKU:CP4161) |
| **Conjugate** | Unconjugated |
| **Isotype** | IgG |
| **Gene Name** | CREB1 |
| **Host Species** | Rabbit |
| **Format** | Antigen Affinity Purified |
| **Physical State** | Liquid |
| **Buffer** | PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol |
| **Applications** | ELISA, ICC, WB |
| **Dilution Ranges** | WB: 1:1000<br>ICC: 1:200 |
| **Species Reactivity** | Chicken, Human, Mouse, Rat |
| **Immunogen** | Phospho-CREB (Ser-271) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding Ser-271 in human CREB. This sequence is well conserved in rat, mouse, chicken, and zebrafish CREB. The site has some homology to the conserved site in ATF1 (Ser-198) and CREM (Ser-287). |
| **Specificity** | The antibody detects a 43 kDa* protein corresponding to the molecular mass of CREB on SDS-PAGE immunoblots of human A431, Jurkat, and rat PC12 cells treated with Calyculin A, but is not observed after lambda phosphatase treatment. |
| **Molecular Weight** | 43 |
| **Quality Control** | Western blots performed on each lot. |
| **Storage** | Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at |

| | |
|---|---|
| | -20°C. |
| **UniProt ID** | P16220<br>UniProt Summary: 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. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-119 phosphorylation. Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells. Regulates the expression of apoptotic and inflammatory response factors in cardiomyocytes in response to ERFE-mediated activation of AKT signaling. |
| **Country of Origin** | United States |
| **Shipping** | Blue Ice |
| **Expiration** | After date of receipt, stable for at least 1 year at -20°C. |
| **Usage Statement** | For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website. |
| **Post Translational Modification Type** | Phosphorylated |
| **Post Translational Modification Residue** | Ser-271 |
| **NCBI Gene ID** | 1385 |

## Product Images




Western blot analysis of human A431 cells treated with calyculin A (100 nM) for 30 min. (lanes 1, 3, & 5) then blots were treated with lambda phosphatase (lanes 2, 4, & 6). The blots were probed with anti-CREB (N-terminal region) (lanes 1 & 2), anti-CREB (Ser-133) (lanes 3 & 4), and anti-CREB (Ser-271) (lanes 5 & 6).




Immunocytochemical labeling of phosphorylated CREB in control and calyculin A-treated A431 cells. The cells were fixed in paraformaldehyde and permeabilized using NP-40 before labeling with rabbit polyclonal CREB (Ser-271). The antibody was detected using goat anti-rabbit DyLight® 594.