

## Rabbit anti-Human, Mouse CREB-2 Polyclonal Antibody | anti-CREB-2 antibody

CREB-2 (phospho Ser219) Polyclonal Antibody

|                               |                       |                                   |                                     |
|-------------------------------|-----------------------|-----------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA293993</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|-----------------------|-----------------------------------|-------------------------------------|

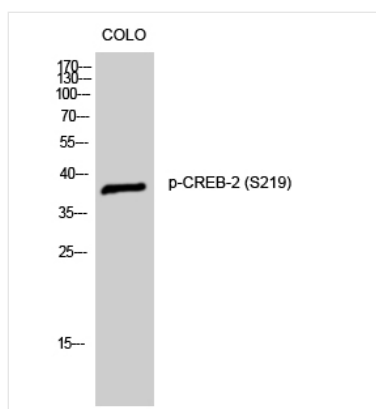
### PRODUCT SYNONYMS

CREB-2; Polyclonal Antibody; CREB-2 (phospho Ser219) Polyclonal Antibody; 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; cAMP-responsive element-binding prot; anti-CREB-2 antibody

### PRODUCT SPECIFICATIONS

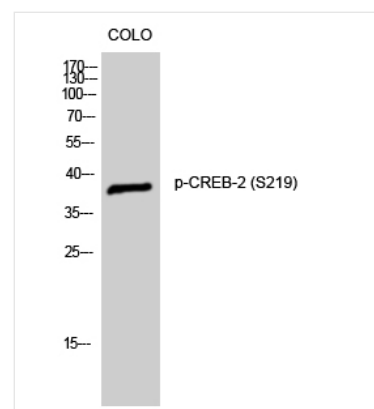
|                                                  |                                                                                                                                                       |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                |
| Reactivity                                       | Human, Mouse                                                                                                                                          |
| Clonality                                        | Polyclonal                                                                                                                                            |
| Applicable Applications for anti-CREB-2 antibody | WB (Western Blot)                                                                                                                                     |
| Notes                                            | ECO:0000303 PubMed:2516827, ECO:0000312 HGNC: HGNC:786                                                                                                |
| Preparation and Storage                          | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES



WB (Western Blot)

Dilution: Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.



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ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CREB-2 antibody | Transcriptional activator. Binds the cAMP response element (CRE)(consensus:5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Cooperates with FOXO1 in osteoblasts to regulate glucose homeostasis through suppression of beta-cell production and decrease in insulin production (By similarity). It binds to a Tax-responsive enhancer element in the long terminal repeat of HTLV-I. Regulates the induction of DDIT3/CHOP and asparagine synthetase (ASNS) in response to endoplasmic reticulum (ER) stress. In concert with DDIT3/CHOP, activates the transcription of TRIB3 and promotes ER stress-induced neuronal apoptosis by regulating the transcriptional induction of BBC3/PUMA. Activates transcription of SIRT4. Regulates the circadian expression of the core clock component PER2 and the serotonin transporter SLC6A4. Binds in a circadian time-dependent manner to the cAMP response elements (CRE) in the SLC6A4 and PER2 promoters and periodically activates the transcription of these genes. During ER stress response, activates the transcription of NLRP1, possibly in concert with other factors (PubMed:26086088). |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 33469976                                                                                                                                                                                                                                                        |
| NCBI GeneID                      | 468                                                                                                                                                                                                                                                             |
| NCBI Accession #                 | NP_001666.2                                                                                                                                                                                                                                                     |
| NCBI GenBank Nucleotide #        | NM_001675.2                                                                                                                                                                                                                                                     |
| UniProt Accession #              | P18848; Q9UH31                                                                                                                                                                                                                                                  |
| Molecular Weight                 | 40 kDa                                                                                                                                                                                                                                                          |
| NCBI Official Full Name          | cyclic AMP-dependent transcription factor ATF-4                                                                                                                                                                                                                 |
| NCBI Official Synonym Full Names | activating transcription factor 4                                                                                                                                                                                                                               |
| NCBI Official Symbol             | ATF4                                                                                                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | CREB2; TXREB; CREB-2; TAXREB67                                                                                                                                                                                                                                  |
| NCBI Protein Information         | cyclic AMP-dependent transcription factor ATF-4; DNA-binding protein TAXREB67; tax-responsive enhancer element B67; cAMP response element-binding protein 2; cAMP-dependent transcription factor ATF-4; cAMP-responsive element-binding protein 2; cyclic AMP-r |
| UniProt Protein Name             | Cyclic AMP-dependent transcription factor ATF-4                                                                                                                                                                                                                 |
| UniProt Gene Name                | ATF4                                                                                                                                                                                                                                                            |
| UniProt Synonym Gene Names       | CREB2; TXREB; cAMP-dependent transcription factor ATF-4; CREB-2; cAMP-responsive element-binding protein 2; TaxREB67                                                                                                                                            |
| UniProt Entry Name               | ATF4_HUMAN                                                                                                                                                                                                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.