

## Mouse CRTC2 Antibody | anti-CRTC2 antibody

CRTC2 Antibody

| CATALOG # | HOST  | REACTIVITY    | APPLICATIONS                                                                                    |
|-----------|-------|---------------|-------------------------------------------------------------------------------------------------|
| AAA108463 | Mouse | Human, Monkey | ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot |

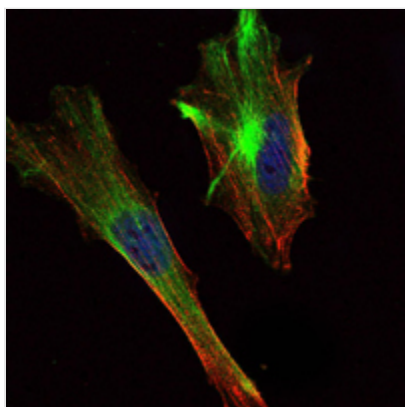
### PRODUCT SYNONYMS

CRTC2; CRTC2 Antibody; TORC2; TORC-2; anti-CRTC2 antibody

### PRODUCT SPECIFICATIONS

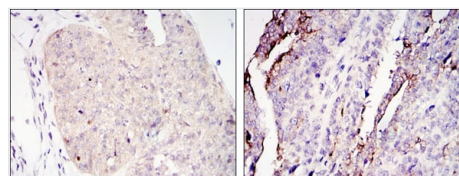
|                                                 |                                                                                                          |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                    |
| Reactivity                                      | Human, Monkey                                                                                            |
| Isotype                                         | IgG1                                                                                                     |
| Clone Number                                    | 5B10                                                                                                     |
| Form/Format                                     | Ascitic fluid containing 0.03% sodium azide.                                                             |
| Sequence Length                                 | 693                                                                                                      |
| Applicable Applications for anti-CRTC2 antibody | ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                       | Purified recombinant fragment of human CRTC2 expressed in E. Coli.                                       |
| Preparation and Storage                         | Store at 4 degree C, for long term storage, store at -20 degree C.                                       |

### IMAGES



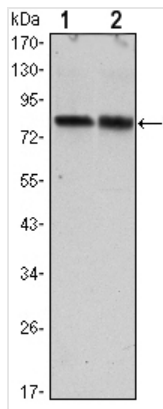
#### IF (Immunofluorescence)

Figure 3: Immunofluorescence analysis of HeLa cells using CRTC2 mouse mAb (green).  
Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



#### IHC (Immunohistochemistry)

Figure 2: Immunohistochemical analysis of paraffin-embedded ovary tumour tissues (left) and lung cancer (right) using CRTC2 mouse mAb with DAB staining.



**WB (Western Blot)**  
 Figure 1: Western blot analysis using CRTC2 mouse mAb against HeLa (1) and HEK293 (2) cell lysate.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CRTC2 antibody | Glucose homeostasis is regulated by hormones and cellular energy status. Elevations of blood glucose during feeding stimulate insulin release from pancreatic beta-cells through a glucose sensing pathway. Feeding also stimulates release of gut hormones such as glucagon-like peptide-1 (GLP-1), which further induces insulin release, inhibits glucagon release and promotes beta-cell viability. CREB-dependent transcription likely plays a role in both glucose sensing and GLP-1 signaling. The protein Torc2 (transducer of regulated CREB activity 2) functions as a CREB co-activator and is implicated in mediating the effects of these two pathways. In quiescent cells, Torc2 is phosphorylated at Ser171 and becomes sequestered in the cytoplasm via an interaction with 14-3-3 proteins. Glucose and gut hormones lead to the dephosphorylation of Torc2 and its dissociation from 14-3-3 proteins. Dephosphorylated Torc2 enters the nucleus to promote CREB-dependent transcription. |
| Product Categories/Family for anti-CRTC2 antibody   | Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| NCBI GI #                        | 32171215                                    |
| NCBI GeneID                      | 200186                                      |
| NCBI Accession #                 | NP_859066.1                                 |
| NCBI GenBank Nucleotide #        | NM_181715.2                                 |
| UniProt Accession #              | Q53ET0; Q6UUJ8; Q7Z3X7; Q8N332              |
| Molecular Weight                 | 80kDa                                       |
| NCBI Official Full Name          | CREB-regulated transcription coactivator 2  |
| NCBI Official Synonym Full Names | CREB regulated transcription coactivator 2  |
| NCBI Official Symbol             | CRTC2                                       |
| NCBI Official Synonym Symbols    | TORC2; TORC-2                               |
| NCBI Protein Information         | CREB-regulated transcription coactivator 2  |
| UniProt Protein Name             | CREB-regulated transcription coactivator 2  |
| UniProt Gene Name                | CRTC2                                       |
| UniProt Synonym Gene Names       | TORC2; TORC-2; Transducer of CREB protein 2 |

**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.

