

## ARG43589 anti-CRTC2 / TORC2 antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes CRTC2 / TORC2. |
| Tested Reactivity   | Hu, Rat  |
| Tested Application  | IHC-P, IP, WB  |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | CRTC2 / TORC2  |
| Species             | Human  |
| Immunogen           | Synthetic peptide derived from human CRTC2 / TORC2   |
| Conjugation         | Un-conjugated  |
| Alternate Names     | TORC2; TORC-2  |

### Application Instructions

| Application table | Application | Dilution       |
|-------------------|-------------|----------------|
|                   | IHC-P       | 1:20 - 1:50    |
|                   | IP          | 1:10 - 1:30    |
|                   | WB          | 1:500 - 1:2000 |

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Affinity purified.   |
| Buffer              | 50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.  |
| Preservative        | 0.01% Sodium azide   |
| Stabilizer          | 40% Glycerol and 0.05% BSA   |
| Concentration       | Batch dependent  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

## Bioinformation

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|                |   |
|----------------|---|
| Gene Symbol    | CRTC2   |
| Gene Full Name | CREB regulated transcription coactivator 2  |
| Background     | <p>This gene encodes a member of the transducers of regulated cAMP response element-binding protein activity family of transcription coactivators. These proteins promote the transcription of genes targeted by the cAMP response element-binding protein, and therefore play an important role in many cellular processes. Under basal conditions the encoded protein is phosphorylated by AMP-activated protein kinase or the salt-inducible kinases and is sequestered in the cytoplasm. Upon activation by elevated cAMP or calcium, the encoded protein translocates to the nucleus and increases target gene expression. Single nucleotide polymorphisms in this gene may increase the risk of type 2 diabetes. A pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Dec 2010]</p> |
| Function       | <p>Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. Enhances the interaction of CREB1 with TAF4. Regulates gluconeogenesis as a component of the LKB1/AMPK/TORC2 signaling pathway. Regulates the expression of specific genes such as the steroidogenic gene, StAR. Potent coactivator of PPARGC1A and inducer of mitochondrial biogenesis in muscle cells. Also coactivator for TAX activation of the human T-cell leukemia virus type 1 (HTLV-1) long terminal repeats (LTR). [UniProt]</p>   |