

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse TORC2 in Western blots.                                                                                                                                                                                                                                       |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 632307                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse TORC2<br>Lys454-Ser612<br>Accession # Q3U182                                                                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

TORC2, also known as CREB-regulated transcription coactivator 1 (crtc2), is a 70-80 kDa protein that functions as a coactivator for CREB1 in promoting transcription through both consensus and variant cAMP response element (CRE) sites. TORC2 activity is important in regulating the expression of genes involved in cellular energy metabolism. Its O-glycosylation triggers TORC2-dependent induction of hepatic gluconeogenic enzymes. It mediates hypothalamic glucose sensing and also the sensing of endoplasmic reticulum stress. In addition, TORC2 contributes to the transcription of HTLV-1 genes and the activation of latent EBV infections. Within aa 454-612, mouse TORC2 shares 84% and 98% aa sequence identity with human and rat TORC2, respectively.

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