

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TORC3 in direct ELISAs and Western blots. In direct ELISAs, less than 15% cross-reactivity with recombinant human TORC3 and no cross-reactivity with recombinant mouse (rm) TORC1 or rmTORC2 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 643729
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse TORC3 Leu153-Pro275 Accession # Q91X84
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

TORC3, also known as CREB-regulated transcription coactivator 1 (crtc3), is an approximately 80 kDa protein that functions as a coactivator for CREB1 in promoting transcription through both consensus and variant cAMP response element (CRE) sites. TORC3 activity is important in regulating the expression of genes involved in cellular energy metabolism. Its binding to the HTLV-1 protein Tax enhances HTLV-1 transcription, whereas its binding to cellular Bcl3 inhibits HTLV-1 transcription. Alternate splicing of mouse TORC3 generates isoforms that lack the N-terminal 299 amino acids (aa). Within aa 153-275, mouse TORC3 shares 99% and 98% aa sequence identity with human and rat TORC3, respectively.

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