

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TORC1 in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 505531
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse TORC1 Gln384-Gln471 Accession # Q68ED7
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

Immunohistochemistry 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

TORC1, also known as CREB-regulated transcription coactivator 1 (*crtc1*), is a 67 kDa member of the TORC family. Mouse TORC1 is 630 amino acids (aa) in length. It contains multiple potential sites for phosphorylation and a serine-rich region from aa 295-365. Mouse TORC1 is 97% and 90% aa identical to rat and human TORC1, respectively. TORC1 is highly expressed in specific regions of the brain including the cortex, hippocampus, and striatum. It functions as a transcription coactivator for CREB1, which activates transcription through both consensus and variant cAMP response element (CRE) sites.

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