

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	Perfusion fixed frozen sections of mouse brain (hippocampus)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.