

DESCRIPTION

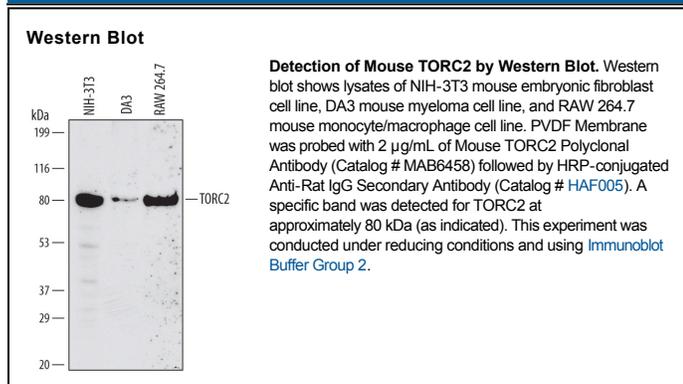
Species Reactivity	Mouse
Specificity	Detects mouse TORC2 in Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 632307
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse TORC2 Lys454-Ser612 Accession # Q3U182
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
Western Blot	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

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.