

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TORC3 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2069D
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TORC3 Ser425-Asn574 Accession # Q6UUV7
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.

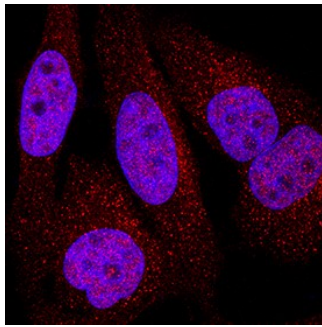
APPLICATIONS

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
Immunocytochemistry	1-10 µg/mL	See Below

DATA

Immunocytochemistry



TORC3 in HeLa Human Cell Line. TORC3 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Rabbit Anti-Human TORC3 Monoclonal Antibody (Catalog # MAB9455) at 1 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to nuclei and cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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

CREB-Regulated Transcription Coactivator 3 (CRTC3), also known as TORC3, a transcriptional coactivator for CREB1, acts as a coactivator in the SIK/TORC signaling pathway. Dephosphorylated CRTC3 increases the interaction of CREB1 cAMP response element (CRE) sites. CRTC3 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. CRTC3 polymorphism have been associated with obesity and hypertriglyceridemia.