

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human TOR in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 303728
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TOR Phe1720-Ala2020 Accession # P42345
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.

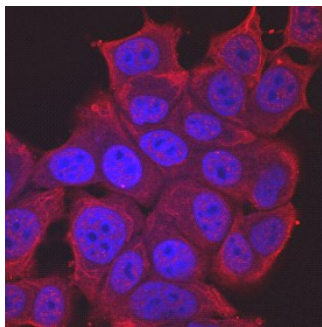
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



TOR in MCF-7 Human Cell Line. TOR was detected in immersion fixed MCF-7 human breast cancer cell line using 10 µg/mL Human/Mouse TOR Monoclonal Antibody (Catalog # MAB1537) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). 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

TOR, also known as FRAP1, is a member of the PI 3-kinase-related kinase (PIKK) family. It is the protein target of rapamycin, an anti-rejection drug used in transplantation and promising anti-cancer agent. TOR plays a crucial role in the control of cell growth and proliferation as a downstream target of the PI 3-kinase/Akt signal transduction pathway.