

DESCRIPTION

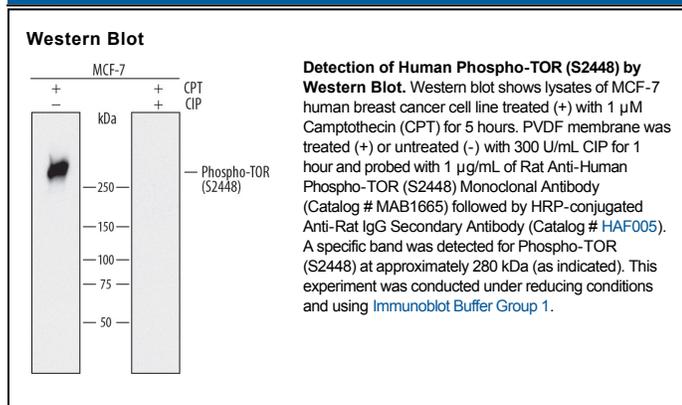
Species Reactivity	Human
Specificity	Detects human Phospho-TOR (S2448) in ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 834115
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human TOR S2448 site Accession # P42345
Formulation	Lyophilized 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
Western Blot	1 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

The mammalian Target of Rapamycin (mTOR) is a member of the PI 3-kinase-related kinase (PIKK) family. mTOR is the protein target of rapamycin, an anti-rejection drug used in transplantation and promising anti-cancer agent. Recent evidence suggests that mTOR is phosphorylated at S2448 by the S6 protein kinase 1 (S6K1) (1, 2), rather than a direct phosphorylation by the Akt protein kinase. This S2448 phosphorylation activates mTOR to affect the downstream control of cell growth and survival.