

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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