

AB-PK729

mTOR-pS2448 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase mTOR (FRAP)



KINEXUS

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Target Protein

Name Long:	Mammalian target of rapamycin (FRAP); FKBP12-rapamycin complex-associated protein
Alias:	DJ576K7.1; FK506 binding protein 12-rapamycin associated protein 1; FK506 binding protein 12-rapamycin associated protein 2; FK506-binding protein 12-rapamycin complex-associated protein 1; FKBP12-rapamycin complex-associated protein 1; FKBP-rapamycin associated protein; FLJ44809; FRAP; FRAP2; RAPT1; mTOR; CCDS127.1; ENSG00000198793
UniProt ID:	P42345
Sequence Predicted Mass (KDa):	288.892 (2549 AA; P42345)
Observed SDS-PAGE Mass (KDa):	250-300

Immunogen

Antibody Immunogen Source:	Human mTOR (FRAP) sequence peptide Cat. No.: PE-04AML99
Antibody Immunogen Sequence:	RTD(pS)YSA(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R2445 to A2451; In the C-terminal fifth of the kinase in the PI3_PI4-kinase domain.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-2448

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	150305
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in HepG2 and MCF7 cells, but a strong 25K cross-reactive protein was observed in some other cell types.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)