

PE-04AML99-P

FRAP1 (2445-2451) pS2448 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on mTOR (FRAP)



KINEXUS

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Target Protein

Name Long:	Mammalian target of rapamycin (FRAP); FKBP12-rapamycin complex-associated protein
Name 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
Species Origin:	Human
UniProt ID:	P42345

Peptide Structure

Peptide Name:	FRAP1 (2445-2451) pS2448
Peptide Origin:	In the C-terminal fifth of the kinase in the PI3_PI4-kinase domain.
Peptide Sequence Location:	R2445-A2451
Peptide Sequence:	RTD(pS)YSA(bA)C
Peptide N-Terminus:	Free amino
Peptide C-Terminus:	Amide
Peptide Modifications Other:	Phosphorylated; Includes beta-alanine-cysteine at C-terminus for coupling to KLH or thio-agarose

Production

Peptide Production Method:	Solid-phase peptide synthesis
Calculated Peptide Mass:	1052.0
Observed Peptide Mass:	1052.6
% Peptide Purity:	97.6
Peptide Appearance:	White powder
Peptide Form:	Solid
Peptide Solubility:	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
Lot Number:	KMP04CAX-24
Amount:	1 mg
Storage Conditions:	Frozen at -20°C
Storage Stability:	Over 1 year at -20°C

Applications

Product Use:	Serves as a blocking peptide for use with the mTOR-pS2448 rabbit polyclonal antibody (Cat. No.: PK729) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.
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This product is for in vitro research use only and is not intended for use in humans or animals.

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