

# PE-04AMM95-P

## FRAP1 (2475-2484) pS2478+pS2481 Peptide Powder

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



# KINEXUS

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### Target Protein

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

### Peptide Structure

<b>Peptide Name:</b>	FRAP1 (2475-2484) pS2478+pS2481
<b>Peptide Origin:</b>	In the C-terminal fifth of the kinase at the end of the PI3_PI4-kinase domain.
<b>Peptide Sequence Location:</b>	V2475-G2484
<b>Peptide Sequence:</b>	VPE(pS)IH(pS)FIG(bA)C
<b>Peptide N-Terminus:</b>	Free amino
<b>Peptide C-Terminus:</b>	Amide
<b>Peptide Modifications Other:</b>	Phosphorylated; Includes beta-alanine-cysteine at C-terminus for coupling to KLH or thio-agarose

### Production

<b>Peptide Production Method:</b>	Solid-phase peptide synthesis
<b>Calculated Peptide Mass:</b>	1419.39
<b>Observed Peptide Mass:</b>	1420
<b>% Peptide Purity:</b>	94.8
<b>Peptide Appearance:</b>	White powder
<b>Peptide Form:</b>	Solid
<b>Peptide Solubility:</b>	Dissolve in 50 µl DMSO and dilute to desired concentration with water or aqueous buffer
<b>Lot Number:</b>	KMP04CAX-25
<b>Amount:</b>	1 mg
<b>Storage Conditions:</b>	Frozen at -20°C
<b>Storage Stability:</b>	Over 1 year at -20°C

### Applications

<b>Product Use:</b>	Serves as a blocking peptide for use with the mTOR-pS2478+pS2481 rabbit polyclonal antibody (Cat. No.: PK730) 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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