

# PE-04AIC99-P

## ACTN1 (243-249) pY246 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on ACTN1



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### Target Protein

<b>Name Long:</b>	Alpha-actinin-1
<b>Name Alias:</b>	actinin 1 smooth muscle; actinin, alpha 1; ACTN1; alpha-actinin 1; Alpha-actinin cytoskeletal isoform; Alpha-actinin-1; FLJ40884; FLJ54432; Non-muscle alpha-actinin-1
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P12814

### Peptide Structure

<b>Peptide Name:</b>	ACTN1 (243-249) pY246
<b>Peptide Origin:</b>	In the second CH domain. This is the major in vivo phosphorylation site in ACTN1.
<b>Peptide Sequence Location:</b>	S243-F249
<b>Peptide Sequence:</b>	SSF(pY)HAF(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>	1111.1
<b>Observed Peptide Mass:</b>	1110.0
<b>% Peptide Purity:</b>	100
<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>	KMP04CAW-19
<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 ACTN1-pY246 rabbit polyclonal antibody (Cat. No.: PN502) 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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