

# PE-04ALW99-P

## EPHA2 (585-591) pY588 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on EphA2



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Ephrin type-A receptor 2 protein-tyrosine kinase
<b>Name Alias:</b>	ECK; EPH receptor A2; Epithelial cell kinase; Kinase EphA2; MPK-5; SEK2; SEK-2; Tyrosine-protein kinase receptor ECK; RCC2; CCDS169.1; ENSG00000142627
<b>Species Origin:</b>	Human
<b>UniProt ID:</b>	P29317

### Peptide Structure

<b>Peptide Name:</b>	EPHA2 (585-591) pY588
<b>Peptide Origin:</b>	In the EphA2-TM domain located prior to the kinase catalytic domain. One of the major in vivo sites of phosphorylation in EphA2.
<b>Peptide Sequence Location:</b>	L585-P591
<b>Peptide Sequence:</b>	LKT(pY)VDP(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>	1089.13
<b>Observed Peptide Mass:</b>	1087.8
<b>% Peptide Purity:</b>	100.0
<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-09
<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 EphA2-pY588 rabbit polyclonal antibody (Cat. No.: PK606) 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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