PE-04ALZ95-P

EPHB2 (777-783) pY780 Peptide Powder

9-mer immunogen and phosphatase substrate phosphopeptide based on EphB2

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Target Protein

Name Long:	Ephrin type-B receptor 2 protein-tyrosine kinase
Name Alias:	CEK5; DRT; EPH receptor B2; EPH3; EPH-3; EPHB2; Ephrin type-B receptor 2; EPHT3; Hek5; Tyro5; MGC87492; ENSG00000133216
Species Origin:	Human
UniProt ID:	P29323

Peptide Structure

Peptide Name:	EPHB2 (777-783) pY780
Peptide Origin:	In protein kinase catalytic domain activation T-loop between subdomains VII and VIII. This is the major in vivo phosphorylation site in EphA2.
Peptide Sequence Location:	D777-A783
Peptide Sequence:	DPT(pY)TSA(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:	1007.0
Observed Peptide Mass:	1005.8
% Peptide Purity:	96.2
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-12
Amount:	1 mg
Storage Conditions:	Frozen at -20°C
Storage Stability:	Over 1 year at -20°C

Applications

Product Use:	Services as a blocking peptide for use with the EphB2-pY780 rabbit polyclonal antibody (Cat. No.: PK610) that is also available from Kinexus. This phosphopeptide may also be useful as a substrate for screening the phosphatase activity of protein phosphatases.