

AB-PK566

CDK12-pS383+pS385 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase CDK12 (Cdc2L7)



KINEXUS

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

Name Long:	Cell division protein kinase 12; Cell division cycle 2-related protein kinase 7
Alias:	CDK12; CD2L7; CDC2 related protein kinase 7; CDC2- related protein kinase 7; Cdc2-related kinase, arginine/serine-rich; CDC2-related protein kinase 7; CRKR; CRKRS; CrkRS; KIAA0904
UniProt ID:	Q9NYV4
Sequence Predicted Mass (KDa):	164.155 (1490 AA; Q9NYV4); 163.228 (1481 AA; Q9NYV4-2); 141.449 (1273 AA; Q9NYV4-3)
Observed SDS-PAGE Mass (KDa):	200-220

Immunogen

Antibody Immunogen Source:	Human CDK12 (Cdc2L7) sequence peptide Cat. No.: PE-04ALR99
Antibody Immunogen Sequence:	RHS(pS)I(pS)PVR(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R380 to R388; In the first quarter of the protein. These are This is the major in vivo phosphorylation sites in CDK12.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-383+Ser-385

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	141024
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

AB-PK566

CDK12-pS383+pS385 Antibody



KINEXUS

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Email: info@kinexus.ca
Phone: 604-323-2547

Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Medium immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in sea star oocytes, and only one strong ~76 KDa cross-reactive protein in HeLa cells.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)