

AB-PK718

MLK3-pS281 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase MLK3 (MAP3K11)



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:	Mixed-lineage protein-serine kinase 3; Mitogen-activated protein kinase kinase kinase 11
Alias:	Kinase MLK3; M3K11; MAP3K11; MAPKKK11; MEKK11; Mitogen activated protein kinase kinase kinase 11; Mixed lineage kinase 3; MLK-3; SPRK; MGC17114; CCDS8107.1; ENSG00000173327
UniProt ID:	Q16584
Sequence Predicted Mass (KDa):	92.688 (847 AA; Q16584); 65.344 (590 AA; Q16584-2)
Observed SDS-PAGE Mass (KDa):	93-100

Immunogen

Antibody Immunogen Source:	Human MLK3 (MAP3K11) sequence peptide Cat. No.: PE-04AOB85
Antibody Immunogen Sequence:	TQM(pS)AAG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues T278 to G284; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-281

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 multipep 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:	0.5 mg/ml
Lot Number:	150305
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.

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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; Phosphosite is highly conserved in mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No significant cross-reactivities detected in HeLa cells treated with phenylarsine oxide (PAO)+vanadate (homogenized in SDS-PAGE sample buffer), except for a strong 50KDa cross-reactive protein ; medium immunoreactive 50 KDa protein in EGF-treated A431cells (SDS-PAGE buffer-extracted); Clean, but strong background >75K in insulin-treated MCF7 cells (SDS-PAGE buffer extracted).

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)