

AB-PK697

MARK3-pT507 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase MARK3



KINEXUS

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Target Protein

Name Long:	MAP/microtubule affinity-regulating protein-serine kinase 3
Alias:	Cdc25C-associated protein kinase 1; Cdc25C-associated protein kinase 1; CTAK1; C-TAK1; ELKL motif kinase 2; KP78; PAR1A; Protein kinase STK10; Ser/Thr protein kinase PAR-1; Serine/threonine protein kinase p78; Serine/threonine-protein kinase p78
UniProt ID:	P27448
Sequence Predicted Mass (KDa):	85.441 (760 AA; P27448-7); 84.489 (753 AA; P27448); 84.015 (752 AA; P27448-2); 83.308 (744 AA; P27448-4); 81.499 (729 AA; P27448-3); 79.936 (713 AA; P27448-6); 74.151 (659 AA; P27448-8)
Observed SDS-PAGE Mass (KDa):	80-85

Immunogen

Antibody Immunogen Source:	Human MARK3 sequence peptide Cat. No.: PE-04ANR99
Antibody Immunogen Sequence:	RRN(pT)YVC(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R504 to C510; In the C-terminal quarter of the protein kinase. This is the major in vivo phosphorylation site in MARK3.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-507

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 multipепptide 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:	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
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.

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)