

AB-PK526

ATM-pS1981 Antibody

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



KINEXUS

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Target Protein

Name Long:	Ataxia telangiectasia mutated protein-serine kinase
Alias:	A-T, mutated; ATA; Ataxia telangiectasia mutated; Ataxia telangiectasia mutated homolog; ATC; ATD; ATDC; Kinase ATM; TEL1; TELO1; telomere maintenance 1; MGC74674; DKFZp781A0353; MGC74674; ENSG00000149311; Telomere maintenance 1
UniProt ID:	Q13315
Sequence Predicted Mass (KDa):	350.687 (3056 AA; Q13315)
Observed SDS-PAGE Mass (KDa):	320-350

Immunogen

Antibody Immunogen Source:	Human ATM sequence peptide Cat. No.: PE-04AIJ90
Antibody Immunogen Sequence:	EEG(pS)QST(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues E1978 to T1984; In the C-terminal half of the protein kinase before the FAT domain
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-1981

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:	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.

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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 mammalian species
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Only a weak 145 KDa cross-reactive protein was detected in HeLa cells and sea star oocytes.

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)