

AB-PK528

ATR-pS435+pS436 Antibody

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



KINEXUS

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Target Protein

Name Long:	Ataxia telangiectasia and Rad3 related protein-serine kinase
Alias:	FRAP-related protein; FRP1; MEC1; SCKL; SCKL1; CCDS3124.1; ENSG00000175054 SCKL1;
UniProt ID:	Q13535
Sequence Predicted Mass (kDa):	301.367 (2644 AA; Q13535); 297.479 (2610 AA; Q13535-3); 294.219 (2580 AA; Q13535-2)
Observed SDS-PAGE Mass (kDa):	270-300

Immunogen

Antibody Immunogen Source:	Human ATR sequence peptide Cat. No.: PE-04AHM99
Antibody Immunogen Sequence:	RRL(pS)(pS)SLN(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R432 to N439; In the N-terminal quarter of the kinase after the transmembrane domain. These are This is the major in vivo phosphorylation sites in ATR.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-435+Ser-436

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 multipепeptide 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:	141202
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
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:	Strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Strong 140 KDa protein detected in HEK-293 cells and sea star oocytes. A very strong 38 KDa cross-reactive protein was detected in 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)