

AB-PK591

DDR1-pY796+pY797 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase DDR1



KINEXUS

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Target Protein

Name Long:	Epithelial discoidin domain-containing receptor 1
Alias:	CAK; CD167; CD167a; CD167a antigen; Cell adhesion kinase; Discoidin domain receptor tyrosine kinase 1; Discoidin receptor tyrosine kinase ;DDR; EDDR1; MCK10; NEP; NTRK4; PTK3; Tyrosine- protein kinase CAK; ENSG00000215522
UniProt ID:	Q08345
Sequence Predicted Mass (KDa):	101.796 (919 AA; Q08345-5); 101.128 (913 AA; Q08345); 99.064 (894 AA; Q08345-6); 97.174 (876 AA; Q08345-2); 27.130 (243 AA; Q08345-4)
Observed SDS-PAGE Mass (KDa):	105-120

Immunogen

Antibody Immunogen Source:	Human DDR1 sequence peptide Cat. No.: PE-04ACP99
Antibody Immunogen Sequence:	AGD(pY)(pY)RV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues A793 to V799; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-796+Tyr-797

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:	0.3 mg/ml
Lot Number:	141003
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 vertebrates; Phosphosite is highly conserved in diverse species
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in A431 and Jurkat cells and sea star oocytes, except for a ~75 KDa protein in FBS-treated A431 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)