

# AB-NK282-1

## MRCKa-AKCD Antibody

Pan-specific polyclonal antibody for monitoring the expression of human protein-serine/threonine kinase MRCKa (PK428)



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Myotonic dystrophy kinase-related CDC42-binding kinasealpha
<b>Alias:</b>	CDC42BPA; CDC42-binding protein kinase alpha; DMPK-like alpha; DKFZp686L1738; FLJ23347; KIAA0451; MRCK alpha; PK428
<b>UniProt ID:</b>	Q5VT25
<b>Sequence Predicted Mass (KDa):</b>	202.812 (1781 AA; Q5VT25-6); 199.811 (1754 AA; Q5VT25-2); 197.307 (1732 AA; Q5VT25); 195.922 (1719 AA; Q5VT25-5); 193.031 (1691 AA; Q5VT25-4); 186.113 (1638 AA; Q5VT25-3)
<b>Observed SDS-PAGE Mass (KDa):</b>	190-210

### Immunogen

<b>Antibody Immunogen Source:</b>	Human MRCKa (PK428) sequence peptide Cat. No.: PE-01BED70
<b>Antibody Immunogen Sequence:</b>	CVLSDRSSLRVTAGPTSLDL
<b>Location in Target:</b>	Corresponds to amino acid residues C408 to L427; Right after kinase catalytic domain
<b>Peptide Type:</b>	For pan-specific recognition of target expression levels.
<b>Target Phosphosite:</b>	Not phosphorylated

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipеп 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.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	160630
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
<b>Storage Conditions and Stability:</b>	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

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Overall Antibody Specificity:</b>	Very high selectivity
<b>Antibody Cross Reactivities:</b>	No significant cross-reactivities detected in various human cancer cell lines, including A431, HEK-293, HepG2, Jurkat and MCF7 cells, except for a weak ~45 KDa protein in No cross-reactivities detected in mouse brain, skeletal muscle, testes and thymus, except for a medium ~100 KDa protein in mouse brain.

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](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)