

AB-PK604

EIF2AK3-pT982 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase EIF2AK3 (PERK)



KINEXUS

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Target Protein

Name Long:	Eukaryotic translation initiation factor 2-alpha kinase 3
Alias:	DKFZp781H1925; E2AK3; EIF2AK3; Eukaryotic translation initiation factor 2-alpha kinase 3; HsPEK; HRI; Kinase PEK; Pancreatic eIF2-alpha kinase; PRKR-like endoplasmic reticulum kinase
UniProt ID:	Q9NZJ5
Sequence Predicted Mass (kDa):	125.216 (1.116 AA; Q9NZJ5)
Observed SDS-PAGE Mass (kDa):	120-130

Immunogen

Antibody Immunogen Source:	Human EIF2AK3 (PERK) sequence peptide Cat. No.: PE-04AON99
Antibody Immunogen Sequence:	ARH(pT)GQV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues A889 to V895; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-982

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.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in MCF7 cells.
Overall Antibody Specificity:	Medium selectivity
Antibody Cross Reactivities:	~50 KDa cross-reactive protein in MCF7 cells and an ~80 KDa protein in HeLa 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)