

AB-PK900

DAPK1-pS308 Antibody

Phosphosite-specific rabbit polyclonal antibody for DLK (DAPK; ZPK; MAP3K12; MUK). This phosphoserine-site antibody also weakly cross-reacts with phosphotyrosine, serine, threonine

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Target Protein

Protein Name Long:	Mitogen-activated protein kinase kinase kinase 12
Protein Alias:	Dual leucine zipper bearing kinase; Dual leucine zipper kinase DLK; EC 2.7.11.25; Kinase DLK; Leucine-zipper protein kinase; M3K12; MAP3K12; MAPK-upstream kinase; MEKK12; MUK; ZPK; ZPKP1
UniProt ID:	P53355
Protein Molecular Mass:	96,322 Da (892 AA; Q12852-2); 93,219 Da (859 AA; Q12852)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human DAPK1
Antibody Immunogen Sequence:	WKQ(pS)VRL(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues W305 to L311. S308 phosphorylation inhibits phosphotransferase activity. This is one of the minor <i>in vivo</i> phosphorylation sites in DLK (DAPK1) (≥4 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). DLK is known to be phosphorylated at this site <i>in vitro</i> by DAPK1.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
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 these animals 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.
Amount:	25 µg
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	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.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Rhesus Macaque Dog Mouse Frog Zebra fish

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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987