

# AB-PK925

## DNA-PK-pS2056 Antibody

Phosphosite-specific rabbit polyclonal antibody for DNAPK (PRKDC)



**KINEXUS**

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### Target Protein

<b>Protein Name Long:</b>	DNA-dependent protein kinase catalytic subunit
<b>Protein Alias:</b>	DNA-PK catalytic subunit; DNA-PKcs; DNPK1; P460; PRKD; PRKDC; XRCC7; HYRC; HYRC1; p350; ENSG00000121031
<b>UniProt ID:</b>	P78527
<b>Protein Molecular Mass:</b>	469,089 Da (4128 AA; P78527); 465,501 Da (4097 AA; P78527-2)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human DNA-PK
<b>Antibody Immunogen Sequence:</b>	C(βA)SYS(pS)QDP
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues S2053 to P2059. S2056 phosphorylation stimulates phosphotransferase activity. This is one of many minor <i>in vivo</i> phosphorylation sites in DNAPK (≥7 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). DNAPK is known to be phosphorylated at this site <i>in vitro</i> by DNAPK (PRKDC).
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

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

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Chimpanzee   Rhesus Macaque   Mouse   Platypus   Chicken

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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