

# AB-PK949

## TBK1-pS716 Antibody

Phosphosite-specific rabbit polyclonal antibody for TBK1 (IKK $\delta$ )



**KINEXUS**

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### Target Protein

<b>Protein Name Long:</b>	TANK binding kinase TBK1; Serine/threonine-protein kinase TBK1
<b>Protein Alias:</b>	FLJ11330; Kinase TBK1; NAK; NF-KB-activating kinase NAK; TANK binding kinase TBK1; TANK-binding kinase 1; CCDS8968.1; ENSG00000183735
<b>UniProt ID:</b>	Q9UHD2
<b>Protein Molecular Mass:</b>	83,642 Da (729 AA; Q9UHD2)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human TBK1
<b>Antibody Immunogen Sequence:</b>	RFG(pS)LTMDGC
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues R713 to G721. S716 phosphorylation stimulates phosphotransferase activity. This is a major site of <i>in vivo</i> phosphorylation of TBK1 located at the C-terminus and based on $\geq 20$ mass spectrometry reports recorded in PhosphoSitePlus. TBK1 is known to be phosphorylated at this site <i>in vitro</i> by PKC $\epsilon$ (PRKCQ, PKCq).
<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 $\mu$ g
<b>Antibody Concentration:</b>	0.75 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   Dog   Rat   Mouse   Chicken   Zebra fish

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

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