e at -20C	PKR (N216) Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
<u>)</u>		Support:	877-678-TECH (8324)	
#2766		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 74	Source: Rabbit	UniProt ID: #P19525	Entrez-Gene Id: 5610		
Product Usage	Ar	oplication			Dilution			
Information	W	estern Blotting			1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensiti	vity PK	PKR (N216) Antibody detects endogenous levels of total PKR protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human PKR. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Protein kinase R (PKR) is transcriptionally induced by interferon and activated by double-stranded RNA (dsRNA). PKR inhibits translation initiation through phosphorylation of the α subunit of the initiation factor eIF2 (eIF2 α) and also controls the activation of several transcription factors, such as NF- κ B, p53, and the Stats. In addition, PKR mediates apoptosis induced by many different stimuli, such as LPS, TNF- α , viral infection, and serum starvation (1,2). Activation of PKR by dsRNA results in PKR dimerization and autophosphorylation of Thr446 and Thr451 in the activation loop. Substitution of threonine for alanine at position 451 completely inactivated PKR, while a mutant with a threonine to alanine substitution at position 446 was partially active (3). Research studies have implicated PKR activation in the pathologies of neurodegenerative diseases, including Alzheimer's disease (4,5).						
Background Refere	2. C 3. F 4. F	Williams, B.R. (1999) Gil, J. and Esteban, M Romano, P. R. et al. (Peel, A.L. and Bredes Peel, A.L. (2004) <i>J Ne</i>	1. (2000) Apoptosis 1998) <i>Mol. Cell. Bi</i> sen, D.E. (2003) Ne	s 5, 107-114. ol. 18, 2282-2297. eurobiol Dis 14, 52-6	32.			
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB	: Western Blotting						
Cross-Reactivity Ke	X : X	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
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PKR (N216) Antibody (#2766) Datasheet Without Images Cell Signaling Technology

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