



Prkr, Phospho-threonine [T414] protein kinase interferon-inducible double stranded RNA dependent polyclonal antibody

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Box 1 | Basic Info

Cat. No.	ABP-PAB-11666
Animal ID	RB0295/RB0296
Host	Rabbit
Reactivity	Mouse
Format	Affinity-purified
Accession number	NM_011163
Amount	100µg

Alternative Name(s):

Pkr, Tik, Eif2ak2, AI467567, AI747578, eIF-2 alpha, dsRNA-activated kinase, T-cell viral integration site, INF type I-induced and dsRNA-activated kinase

Protein kinase interferon-inducible double stranded RNA dependent (Prkr), a serine/threonine kinase, is activated in virus-infected cells and acts as an antiviral machinery of type I interferons. Prkr plays an important role in mRNA translation by phosphorylating the alpha subunit of eukaryotic initiation factor 2. Through this capacity PRKR is thought to be a mediator of the antiviral and antiproliferative actions of interferon. In addition to translational function, Prkr has been implicated in many signaling pathways to gene transcription by modulating the activities of a number of transcription factors, including NF-kappa B and STATs.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

KLH conjugated synthetic peptide comprised of amino acids 411 - 424 [RTG[T*]LQYMSPE] of the mouse phospho-threonine [T414] protein kinase interferon-inducible double stranded RNA dependent (Prkr) protein.

Application

Tested by peptide-specific ELISA (1:1,000).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Taddeo B, Luo TR, Zhang W, Roizman B: Activation of NF-kappaB in cells productively infected with HSV-1 depends on activated protein kinase R and plays no apparent role in blocking apoptosis. Proc. Natl. Acad. Sci. U S A. 100(21): 12408-12413 (2003).
2. Stewart MJ, Blum MA, Sherry B: PKR's protective role in viral myocarditis. Virology 314(1): 92-100 (2003).
3. Streitenfeld H, Boyd A, Fazakerley JK, Bridgen A, Elliott RM, Weber F: Activation of PKR by Bunyamwera virus is independent of the viral interferon antagonist NSs. J. Virol. 77(9): 5507-5511 (2003).
4. Yin Z, Haynie J, Williams BR, Yang YC: C114 is a novel IL-11-inducible nuclear double-stranded RNA-binding protein that inhibits protein kinase R. J. Biol. Chem. 278(25): 22838-22845 (2003).