BT LAB
Bioassay Technology Laboratory
Optimize Your Research

RAD9(Phospho Ser272) Rabbit Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP04380
Host	Rabbit
Isotype	IgG
Size	100ul, 50ul, 20ul
Immunogen	Synthesized peptide derived from human RAD9 (Phospho Ser272)
Mol wt	N/A
Species reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	RAD9
Synonyms	RAD9 ;Phospho Ser272

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

Catalytic activity:Exonucleolytic cleavage in the 3'- to 5'-direction to yield nucleoside 5'-phosphates.|Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double| nick| or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates. RAD9A possesses 3'->5' double stranded DNA exonuclease activity. Its phosphorylation by PRKCD may be required for the formation of the 9-1-1 complex.|PTM:Constitutively phosphorylated on serine and threonine amino acids in absence of DNA damage. Hyperphosphorylated by PRKCD and ABL1 upon DNA damage. Its phosphorylation by PRKCD may be required for the formation of the 9-1-1 complex.|Belongs to the rad9 family.|subunit:Component of the toroidal 9-1-1 (RAD9-RAD1-HUS1) complex| composed of RAD9A| RAD1 and HUS1. The 9-1-1 complex associates with LIG1| POLB| FEN1| RAD17| HDAC1| RPA1 and RPA2. The 9-1-1 complex associates with the RAD17-RFC complex. RAD9A interacts with BCL2L1| FEN1| PRKCD| RAD9B| HUS1| RAD1| ABL1| RPA1| ATAD5 and RPA2.|

Recommended Dilution

WB: 1: 1000 - 1: 2000

ELISA: 1: 5000 - 1: 20000

Not yet tested in other applications.

Images

No images.

Storage

-20°C for 1 year

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