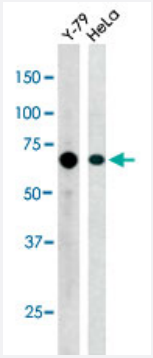
RAD9A (phospho S387) polyclonal antibody

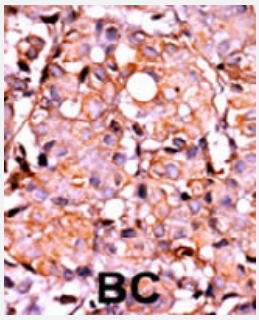
Catalog # PAB0588 Size 400 uL

Applications



Western Blot (Cell lysate)

The RAD9A (phospho S387) polyclonal antibody (Cat # PAB0588) is used in Western blot to detect Phospho-RAD9A-S387 in Y-79 (left) and Hela (right) cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with RAD9A (phospho S387) polyclonal antibody (Cat # PAB0588) which was peroxidase-conjugated to the secondary antibody followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of RAD9A.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S387 of human RAD9A.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — RAD9A

Entrez GeneID	5883
Protein Accession#	NP_004575;Q99638
Gene Name	RAD9A
Gene Alias	RAD9
Gene Description	RAD9 homolog A (S. pombe)
Omim ID	603761
Gene Ontology	Hyperlink

Gene Summary	This gene product is highly similar to Schizosaccharomyces pombe rad9, a cell cycle checkpoint protein required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein is found to possess 3' to 5' exonuclease activity, which may contribute to its role in sensing and repairing DNA damage. It forms a checkpoint protein complex with RAD1 and HUS1. This complex is recruited by checkpoint protein RAD17 to the sites of DNA damage, which is thought to be important for triggering the checkpoint-signaling cascade. Use of alternative polyA sites has been noted for this gene. [provided by RefSeq
Other Designations	RAD9 homolog|cell cycle checkpoint control protein

Publication Reference

- Accumulation of hRad9 protein in the nuclei of nonsmall cell lung carcinoma cells.

  Maniwa Y, Yoshimura M, Bermudez VP, Yuki T, Okada K, Kanomata N, Ohbayashi C, Hayashi Y, Hurwitz J, Okita Y.

  Cancer 2005 Jan; 103(1):126.

- The human Rad9-Rad1-Hus1 checkpoint complex stimulates flap endonuclease 1.

  Wang W, Brandt P, Rossi ML, Lindsey-Boltz L, Podust V, Fanning E, Sancar A, Bambara RA.

  PNAS 2004 Nov; 101(48):16762.

- The human Rad9 checkpoint protein stimulates the carbamoyl phosphate synthetase activity of the multifunctional protein CAD.

  Lindsey-Boltz LA, Wauson EM, Graves LM, Sancar A.

  Nucleic Acids Research 2004 Aug; 32(15):4524.

Disease

- Ataxia telangiectasia
- Cardiovascular Diseases
- Colorectal Neoplasms
- Diabetes Mellitus
- Edema
- Kidney Failure