

Product datasheet for **AP05666PU-N**

RAD9A Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 1:2000 - 1:4000. Western Blot: 1:50 - 1:250; detects a band of approximately 60kDa.
Reactivity:	Yeast
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to aa 1125-1139 of yeast Rad9 protein conjugated to Keyhole Limpet Haemocyanin (KLH).
Specificity:	This antibody detects <i>Saccharomyces cerevisiae</i> Rad9, a protein involved in the DNA damage checkpoint. This antibody is pan reactive with both the phosphorylated and non-phosphorylated forms of this protein.
Formulation:	Phosphate buffered saline pH7.2 containing 0.09% Sodium Azide (NaN ₃) State: Purified State: Liquid purified IgG
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	RAD9 checkpoint clamp component A
Database Link:	Q99638



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Background:

In *S. cerevisiae* this checkpoint is mainly controlled by the PI(3) kinase-like kinase (PIKK) Mec1, which is activated in response to DNA damage. Activated Mec1 hyperphosphorylates Rad9, which in turn triggers the binding of Rad53, the orthologue of mammalian Chk2. Activated Rad53 specifically targets substrates required for cell cycle arrest, gene expression and efficient DNA repair. Mutations affecting Rad9 impair checkpoint induced cell-cycle arrest and increase genomic instability.

Synonyms:

RAD-9A, Cell cycle checkpoint control protein RAD9A, EC=3.1.11.2, DNA repair exonuclease rad9 homolog A