

## RAD9A monoclonal antibody

Catalog: MB0162

Host: Mouse

Reactivity: Human, Mouse, Rat, Monkey

### BackGround:

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. The 9-1-1 complex is necessary for the recruitment of C12orf32/RHINO to sites of double-stranded breaks(DSB) occurring during the S phase. 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.

### Product:

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

### Molecular Weight:

Predicted band size: 43KDa

Observed band size: 55KDa

### Swiss-Prot:

Q99638

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1000

IP: 1:50~100

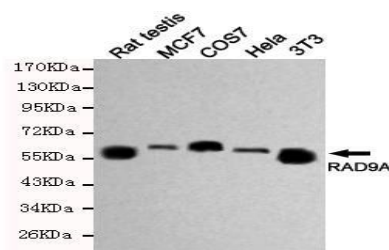
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

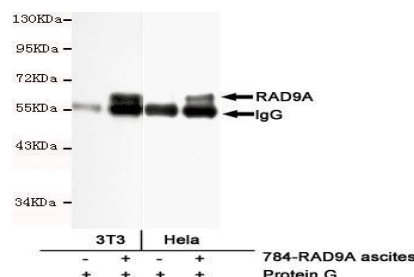
### Specificity:

This antibody detects endogenous levels of RAD9A and does not cross-react with related proteins

### DATA:



Western blot detection of RAD9A in HeLa, MCF7, 3T3, COS7 & Rat testis cell lysates using RAD9A antibody (1:500 diluted).



Immunoprecipitation analysis of HeLa & 3T3 cell lysates using RAD9A antibody

### Note:

For research use only, not for use in diagnostic procedure.

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