

RAD9A Monoclonal Antibody

Catalog No: #27193

Package Size: #27193-1 50ul #27193-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

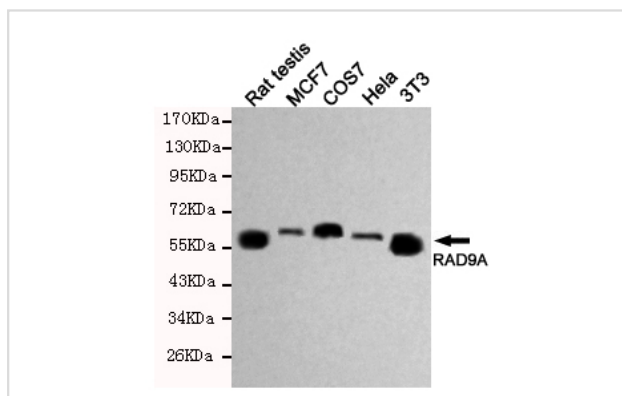
Description

| | |
|-----------------------|--|
| Product Name | RAD9A Monoclonal Antibody |
| Host Species | Mouse |
| Clonality | Monoclonal |
| Clone No. | 3A3-A7-F8 |
| Isotype | IgG2b |
| Purification | Affinity purified |
| Applications | WB IP |
| Species Reactivity | Hu Ms Rt Mk |
| Specificity | This antibody detects endogenous levels of RAD9A, and does not cross-react with related proteins. |
| Immunogen Type | Recombinant Protein |
| Immunogen Description | Purified recombinant human Rad9A protein fragments expressed in E.coli |
| Target Name | RAD9A |
| Other Names | Cell cycle checkpoint control protein; DNA repair exonuclease rad9 homolog A; hRAD 9; hRAD9; Rad 9; RAD 9A; RAD9 (S pombe) homolog; RAD9 homolog A; RAD9 homolog; RAD9A; |
| Accession No. | Uniprot: Q99638 Gene ID: 5883 |
| Uniprot | Q99638 |
| GeneID | 5883; |
| SDS-PAGE MW | 55kd |
| Formulation | Purified mouse monoclonal in PBS(pH 7.4)containing with 0.2% sodium azide,50% glycerol. |
| Storage | store at -20Λ C |

Application Details

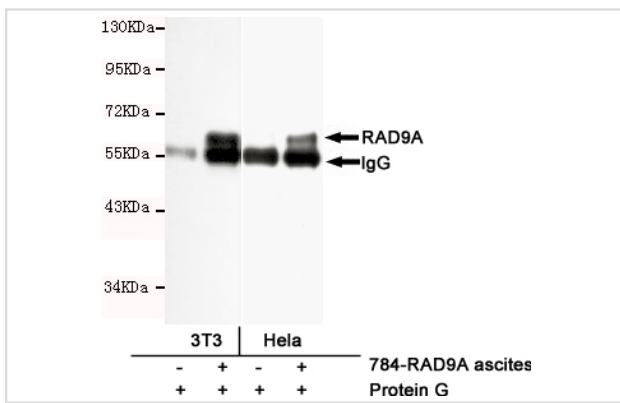
Western blotting: 1:500

Images



Western blot detection of RAD9A in HeLa, MCF7, 3T3, COS7 & Rat testis cell lysates using RAD9A antibody (1:500 diluted). Predicted band size: 43KDa, Observed band size: 55KDa

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



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.

Note: This product is for in vitro research use only