

RAD9A Monoclonal Antibody

Catalog No: #27193

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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

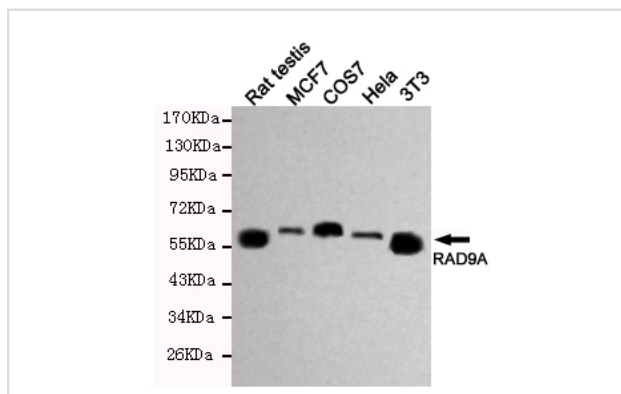
Description

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
SDS-PAGE MW	55kd
Formulation	Purified mouse monoclonal in PBS(pH 7.4)containing with 0.2% sodium azide,50% glycerol.
Storage	store at -20 ^o C

Application Details

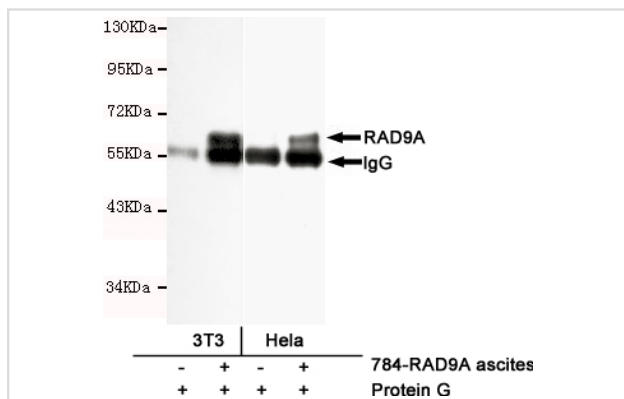
Western blotting: 1:500

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 and is not intended for use in humans or animals.