RAD9A Conjugated Monoclonal Antibody

Catalog No: #C27193

Package Size: #C27193-AF350 100ul #C27193-AF405 100ul #C27193-AF488 100ul #C27193-AF555 100ul #C27193-AF594 100ul #C27193-AF647 100ul #C27193-AF680 100ul #C27193-AF750 100ul #C27193-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	RAD9A Conjugated Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Specificity	This antibody detects endogenous levels of RAD9A,and does not cross-react with related proteins.
Immunogen Description	Purified recombinant human Rad9A protein fragments expressed in E.coli
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
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.	Swiss-Prot#: Q99638NCBI Gene ID:5883
Uniprot	Q99638
GeneID	5883;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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