



Anti-RAD9A monoclonal antibody, clone 8C22 (DCABH-537)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to Rad9
Antigen Description	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. 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.
Immunogen	Protein expressed in 293T cells transfected with Human Rad9 expression vector
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	8C22
Purity	Immunogen affinity purified
Purification	Purified from Mouse ascite fluid by affinity chromatography
Conjugate	Unconjugated
Applications	WB, IHC-P

Positive Control	HeLa, HT29 or Jurkat lysate HEK293T transfected lysate Human pancreas carcinoma, breast adenocarcinoma, colon, colon adenocarcinoma or lung carcinoma tissue.
Format	Liquid
Size	100 µl
Buffer	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 1% BSA, 50% Glycerol, 48% PBS
Preservative	0.02% Sodium Azide
Storage	store at -20°C. Avoid freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	RAD9A RAD9 homolog A (S. pombe) [Homo sapiens]
Official Symbol	RAD9A
Synonyms	RAD9A; RAD9 homolog A (S. pombe); RAD9, RAD9 (S. pombe) homolog; cell cycle checkpoint control protein RAD9A; hRAD9; DNA repair exonuclease rad9 homolog A; RAD9;
Entrez Gene ID	5883
Protein Refseq	NP_001230153
UniProt ID	Q99638
Chromosome Location	11q13.1-q13.2
Pathway	Activation of ATR in response to replication stress, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; G2/M Checkpoints, organism-specific biosystem; Regulation of Telomerase, organism-specific biosystem;
Function	3-5 exonuclease activity; SH3 domain binding; enzyme binding; exodeoxyribonuclease III activity; histone deacetylase binding; hydrolase activity; protein binding; protein kinase binding;