

## ARG45177 anti-RAD9A antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes RAD9A
Tested Reactivity	Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	RAD9A
Species	Mouse
Immunogen	Recombinant protein containing to mouse RAD9A.
Conjugation	Un-conjugated
Alternate Names	DNA repair exonuclease rad9 homolog A; Cell cycle checkpoint control protein RAD9A; EC 3.1.11.2; RAD9; hRAD9

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 <sup>6</sup> cells
	IHC-P	0.5-1 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	55-60 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.01% Sodium azide and 4% Trehalose.
Preservative	0.01% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

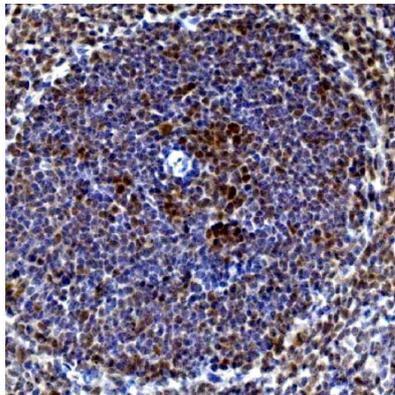
## Bioinformation

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Gene Symbol	RAD9A
Gene Full Name	RAD9 Checkpoint Clamp Component A
Background	This gene product is highly similar to <i>Schizosaccharomyces pombe rad9</i> , a cell cycle checkpoint protein required for cell cycle arrest and DNA damage repair. This protein possesses 3' to 5' exonuclease activity, which may contribute to its role in sensing and repairing DNA damage. It forms a checkpoint protein complex with RAD1 and HUS1. This complex is recruited by checkpoint protein RAD17 to the sites of DNA damage, which is thought to be important for triggering the checkpoint-signaling cascade. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]
Function	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 RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase. RAD9A possesses 3'->5' double stranded DNA exonuclease activity. [UniProt]
Calculated Mw	42 kDa
PTM	Phosphoprotein. [UniProt]
Cellular Localization	Nucleus. [UniProt]

## Images

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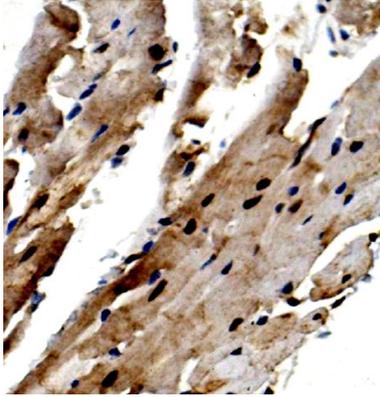
ARG45177 anti-RAD9A antibody IHC-P image

Immunohistochemistry: Rat spleen stained with ARG45177 anti-RAD9A antibody at 1 µg/ml dilution.



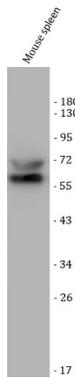
ARG45177 anti-RAD9A antibody WB image

Western blot: PC-12 stained with ARG45177 anti-RAD9A antibody at 0.5  $\mu\text{g/ml}$  dilution.



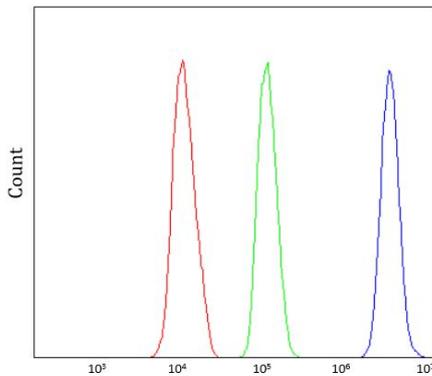
ARG45177 anti-RAD9A antibody IHC-P image

Immunohistochemistry: Mouse cardiac muscle stained with ARG45177 anti-RAD9A antibody at 1  $\mu\text{g/ml}$  dilution.



ARG45177 anti-RAD9A antibody WB image

Western blot: Mouse spleen stained with ARG45177 anti-RAD9A antibody at 0.5  $\mu\text{g/ml}$  dilution.



ARG45177 anti-RAD9A antibody FACS image

Flow Cytometry: HEPA1-6 stained with ARG45177 anti-RAD9A antibody at 1  $\mu\text{g}/10^6$  cells dilution.