

Mouse Rad9a Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21218a

Specification

Mouse Rad9a Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	<u>Q9Z0F6</u>
Reactivity	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	42059

Mouse Rad9a Antibody (N-term) - Additional Information

Gene ID 19367

Other Names Cell cycle checkpoint control protein RAD9A, mRAD9, DNA repair exonuclease rad9 homolog A, Rad9-like protein, Rad9a, Rad9

Target/Specificity

This mouse Rad9a antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 29-62 amino acids from the N-terminal region of mouse Rad9a.

Dilution WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Rad9a Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Rad9a Antibody (N-term) - Protein Information

Name Rad9a

Synonyms Rad9

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.

Cellular Location Nucleus {ECO:0000250|UniProtKB:Q99638}.

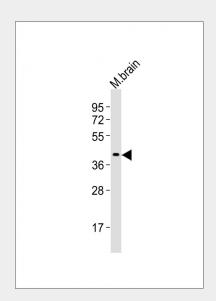
Tissue Location Expressed in heart, brain, spleen, lung, liver, skeletal muscle, kidney and testis.

Mouse Rad9a Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

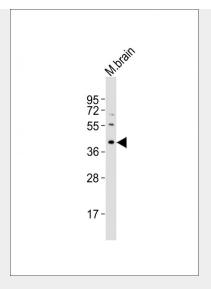
- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Mouse Rad9a Antibody (N-term) - Images



Anti-Rad9a Antibody (N-term) at 1:2000 dilution + M. brain tissue lysates Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFDM/TBST.





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Mouse Rad9a Antibody (N-term) - 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 RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase. RAD9A possesses 3'->5' double stranded DNA exonuclease activity (By similarity).

Mouse Rad9a Antibody (N-term) - References

Hang H.,et al.J. Cell. Physiol. 177:241-247(1998). Carninci P.,et al.Science 309:1559-1563(2005). Park Y.-G.,et al.Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases. Ishii H.,et al.Proc. Natl. Acad. Sci. U.S.A. 102:9655-9660(2005). Sweet S.M.,et al.Mol. Cell. Proteomics 8:904-912(2009).