

Mouse Rad9a Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21265b

Specification

Mouse Rad9a Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O9Z0F6
Reactivity	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	42059

Mouse Rad9a Antibody (C-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 279-313 amino acids from the C-terminal region of Mouse Rad9a.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Rad9a Antibody (C-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

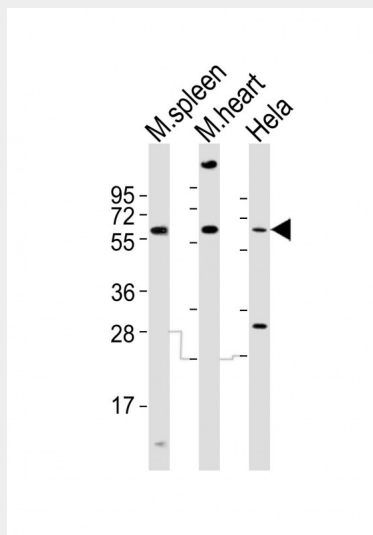
Expressed in heart, brain, spleen, lung, liver, skeletal muscle, kidney and testis.

Mouse Rad9a Antibody (C-term) - Protocols

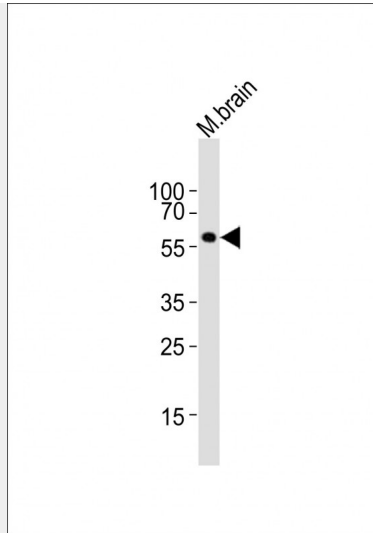
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Mouse Rad9a Antibody (C-term) - Images



All lanes : Anti-Rad9a Antibody (C-term) at 1:2000 dilution Lane 1: mouse spleen lysates Lane 2: mouse heart lysates Lane 3: HeLa whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



Anti-Rad9a Antibody (C-term) at 1:1000 dilution + mouse brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

Mouse Rad9a Antibody (C-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 RHN01 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 (C-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).