

ARG43634 anti-MUS81 antibody

Package: 50 µg
Store at: -20°C

Summary

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|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes MUS81 |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | MUS81 |
| Species | Human |
| Immunogen | Recombinant protein fragment corresponding to a.a. 280-500 of Human MUS81. |
| Conjugation | Un-conjugated |
| Alternate Names | Crossover junction endonuclease MUS81; SLX3; EC 3.1.22.- |

Application Instructions

| | | |
|-------------------|--|----------------|
| Application table | Application | Dilution |
| | WB | 1:500 - 1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Observed Size | ~70 - 72 kDa | |

Properties

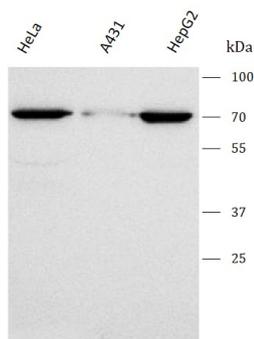
| | |
|---------------------|--|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | 0.9% NaCl, 0.2% Na ₂ HPO ₄ and 4% Trehalose. |
| Stabilizer | 4% Trehalose |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C 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 | MUS81 |
| Gene Full Name | MUS81 structure-specific endonuclease subunit |
| Background | This gene encodes a structure-specific endonuclease which belongs to the XPF/MUS81 endonuclease family and plays a critical role in the resolution of recombination intermediates during DNA repair after inter-strand cross-links, replication fork collapse, and DNA double-strand breaks. The encoded protein associates with one of two closely related essential meiotic endonuclease proteins (EME1 or EME2) to form a complex that processes DNA secondary structures. It contains an N-terminal DEAH helicase domain, an excision repair cross complementation group 4 (ERCC4) endonuclease domain, and two tandem C-terminal helix-hairpin-helix domains. Mice with a homozygous knockout of the orthologous gene have significant meiotic defects including the failure to repair a subset of DNA double strand breaks. [provided by RefSeq, Jun 2017] |
| Function | Interacts with EME1 and EME2 to form a DNA structure-specific endonuclease with substrate preference for branched DNA structures with a 5'-end at the branch nick. Typical substrates include 3'-flap structures, replication forks and nicked Holliday junctions. May be required in mitosis for the processing of stalled or collapsed replication forks. [UniProt] |
| Calculated Mw | 61 kDa |
| PTM | Phosphoprotein |
| Cellular Localization | Nucleus, nucleolus |

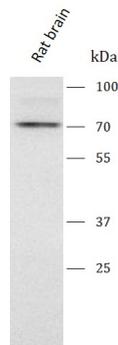
Images

ARG43634 anti-MUS81 antibody WB image



Western blot: HeLa, A431 and HepG2 stained with ARG43634 anti-MUS81 antibody at 0.5 µg/mL dilution.

ARG43634 anti-MUS81 antibody WB image



Western blot: Rat brain stained with ARG43634 anti-MUS81 antibody at 0.5 µg/mL dilution.

ARG43634 anti-MUS81 antibody WB image

Western blot: Mouse brain stained with ARG43634 anti-MUS81 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.

