

ARG43650 anti-MUS81 antibody

Package: 100 µl
Store at: -20°C

Summary

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

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:100
	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

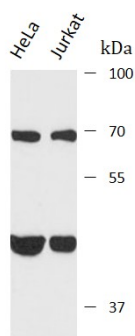
Form	Liquid
Purification	Affinity purified.
Buffer	PBS, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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.

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

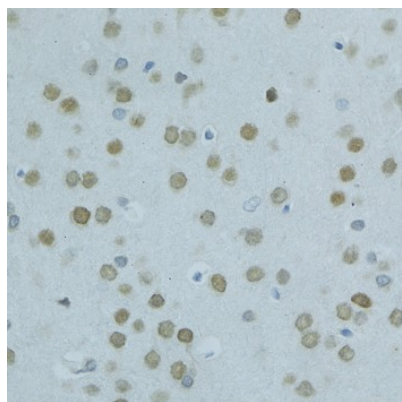
ARG43650 anti-MUS81 antibody WB image

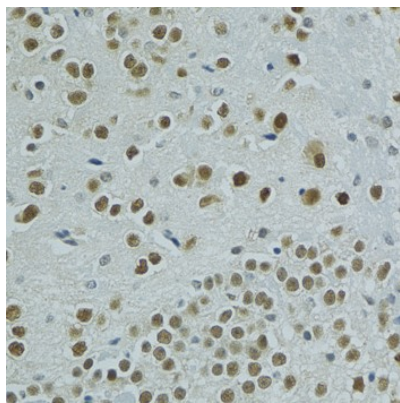
Western blot: HeLa and Jurkat stained with ARG43650 anti-MUS81 antibody at 1:1000 dilution.



ARG43650 anti-MUS81 antibody IHC-P image

Immunohistochemistry: Rat brain stained with ARG43650 anti-MUS81 antibody at 1:100 dilution.





ARG43650 anti-MUS81 antibody IHC-P image

Immunohistochemistry: Mouse brain stained with ARG43650 anti-MUS81 antibody at 1:100 dilution.