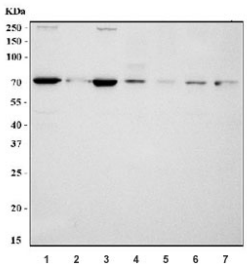
MUS81 Antibody (RQ6779)

Catalog No.	Formulation	Size
RQ6779	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q96NY9
Applications	Western Blot : 1-2ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This MUS81 antibody is available for research use only.



Western blot testing of 1) human HeLa, 2) human A431, 3) human HepG2, 4) rat brain, 5) rat PC-12, 6) mouse brain and 7) mouse NIH 3T3 cell lysate with MUS81 antibody. Expected molecular weight: 61-72 kDa.

Description

Crossover junction endonuclease MUS81 is an enzyme that in humans is encoded by the MUS81 gene. 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.

Application Notes

Optimal dilution of the MUS81 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids H283-R483) was used as the immunogen for the MUS81 antibody.

Storage

After reconstitution, the MUS81 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.