Datasheet for ABIN7602139

anti-MUS81 antibody (AA 6-545)

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Overview

Quantity:	100 µg
Target:	MUS81
Binding Specificity:	AA 6-545
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MUS81 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MUS81 Antibody Picoband®
Immunogen:	E.coli-derived human MUS81 recombinant protein (Position: R6-C545).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MUS81 Antibody Picoband® (ABIN7602139). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	MUS81
Alternative Name:	MUS81 (MUS81 Products)
Background:	Synonyms: Lipopolysaccharide-binding protein, LBP, Lbp, Tissue Specificity: Detected in blood serum (at protein level). Background: 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.
Molecular Weight:	70 kDa
Gene ID:	80198
Pathways:	DNA Damage Repair

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Chen, X.-B., Melchionna, R., Denis, C.-M., Gaillard, P.-H. L., Blasina, A., Van de Weyer, I., Boddy, M. N., Russell, P., Vialard, J., McGowan, C. H. Human Mus81-associated endonuclease cleaves Holliday junctions in vitro. Molec. Cell 8: 1117-1127, 2001. 2. Ciccia, A., Constantinou, A., West, S. C. Identification and characterization of the human Mus81-Eme1 endonuclease. J. Biol. Chem. 278: 25172-25178, 2003. 3. Ciccia, A., Ling, C., Coulthard, R., Yan, Z., Xue, Y., Meetei, A. R., Laghmani, E. H., Joenje, H., McDonald, N., de Winter, J. P., Wang, W., West, S. C. Identification of FAAP24, a Fanconi anemia core complex protein that interacts with FANCM. Molec. Cell 25: 331-343, 2007.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.