Datasheet for ABIN7126263

anti-Crossover junction endonuclease EME1 (EME1) antibody

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Overview

Quantity:	100 µg
Target:	Crossover junction endonuclease EME1 (EME1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Immunoprecipitation (IP)

Product Details

Immunogen:	His-tagged recombinant Eme1 of human origin
Isotype:	IgG1
Specificity:	Essential meiotic endonuclease 1 (Eme1), a member of the Eme1/Mms4 family, associates with Mus81 to constitute a heterodimeric endonuclease that has been implicated in mitotic and meiotic recombination in eukaryotes. The Mus81-Eme1 complex cleaves branched DNA structures, especially those arising during stalled DNA replication such as replication forks and 3' DNA flaps. When purified from yeast, this complex cleaves synthetic Holliday junctions into linear duplex DNA. These findings provide compelling evidence that Mus81-Eme1 complexes are essential elements of the eukaryotic nuclear Holliday junction resolvase. Eme1 may also be required in mitosis for the processing of collapsed replication forks. Eme1 is typically localized to the nucleolus and is recruited to regions of DNA damage in S phase cells.
Cross-Reactivity (Details):	Human.

Product Details

Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	Crossover junction endonuclease EME1 (EME1)
Alternative Name:	EME1 (EME1 Products)
Background:	Crossover junction endonuclease EME1, Essential Meiotic Endonuclease 1 Homolog 1/2, hMMS4, MMS4L, SLX2A,EME1 Cellular localisation: Nucleus
Molecular Weight:	65kDa
Gene ID:	146956, 514330
UniProt:	Q96AY2

Application Details

Application Notes:	Known_Application: Immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 mL of cell lysate)), ,Western Blot (1-2 µg/mL), Immunofluorescence (1-2 µg/mL), ,Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined. Positive_Control: HEK293T or U-87 MG cells. Human tonsil.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months