



## Rabbit Anti-EME1 antibody

SL7861R

<b>Product Name:</b>	EME1
<b>Chinese Name:</b>	减数分裂内切酶EME1抗体
<b>Alias:</b>	Crossover junction endonuclease EME1; Eme1 essential meiotic endonuclease 1 homolog 1 (S. pombe); EME1, S. pombe, homolog of, 1; essential meiotic endonuclease 1 homolog 1 (S pombe); Essential Meiotic Endonuclease 1 Homolog 1; essential meiotic endonuclease 1 homolog 2; Essential meiotic endonuclease 1, S. pombe, homolog of, 1; hMMS4; homolog of yeast EME1 endonuclease; MMS4; MMS4 homolog; MMS4L; EME1 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	63kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human EME1:412-500/570
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	EME1 complexes with methyl methanesulfonate-sensitive UV-sensitive 81 protein (MUS81) to form an endonuclease complex which cleaves branched DNA structures,

especially those arising during stalled DNA replication. The protein may be involved in repairing DNA damage and in maintaining genomic stability. It interacts with specific DNA structures including nicked Holliday junctions, 3'-flap structures and aberrant replication fork structures. Alternative splicing results in multiple transcript variants.

**Function:**

Interacts with MUS81 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.

**Subunit:**

May self-associate. Interacts with MUS81. Interacts with ERCC4 and FANCM.

**Subcellular Location:**

Nucleus, nucleolus. Note=Recruited to regions of DNA damage in S-phase cells.

**Similarity:**

Belongs to the EME1/MMS4 family.

**SWISS:**

Q96AY2

**Gene ID:**

146956

**Database links:**

UniProtKB/Swiss-Prot: Q96AY2.2

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.