

Anti-EME1 Picoband Antibody
Catalog # ABO12490**Specification**

Anti-EME1 Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	Q96AY2
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Crossover junction endonuclease EME1(EME1) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-EME1 Picoband Antibody - Additional Information

Gene ID 146956

Other Names

Crossover junction endonuclease EME1, 3.1.22.-, MMS4 homolog, hMMS4, EME1, MMS4

Calculated MW

63252 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

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

Protein Name

Crossover junction endonuclease EME1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human EME1 (520-561aa DKERQNLLADIQVRRGEGVTSTSRRIYLMQMTTLQ), different from the related mouse sequence by five amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-EME1 Picoband Antibody - Protein Information

Name EME1

Synonyms MMS4

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.

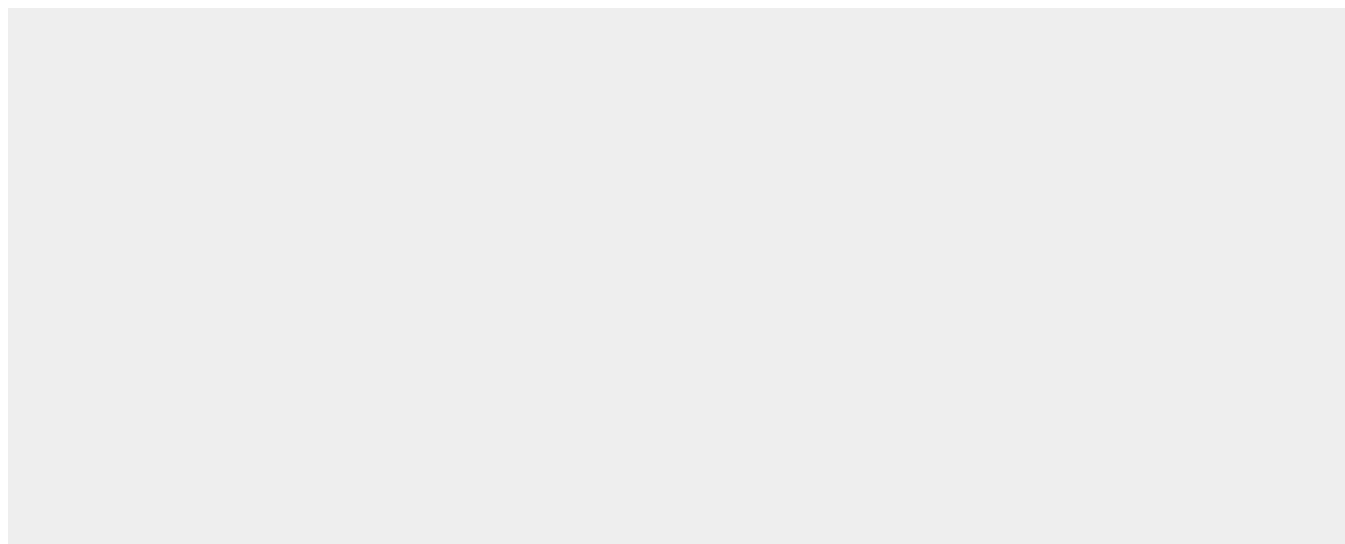
Cellular Location

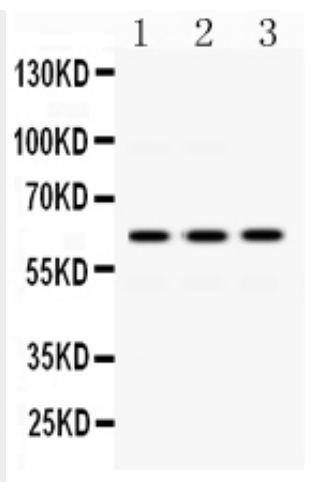
Nucleus, nucleolus. Note=Recruited to regions of DNA damage in S-phase cells

Anti-EME1 Picoband Antibody - Protocols

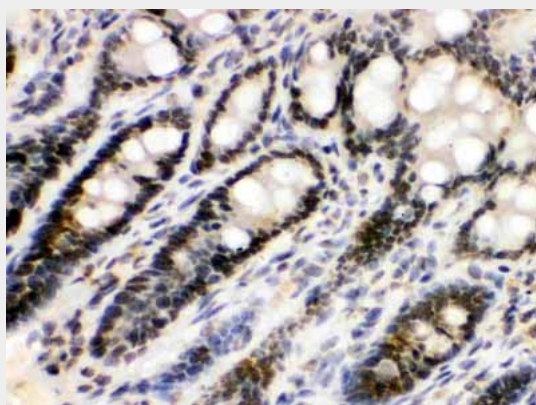
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

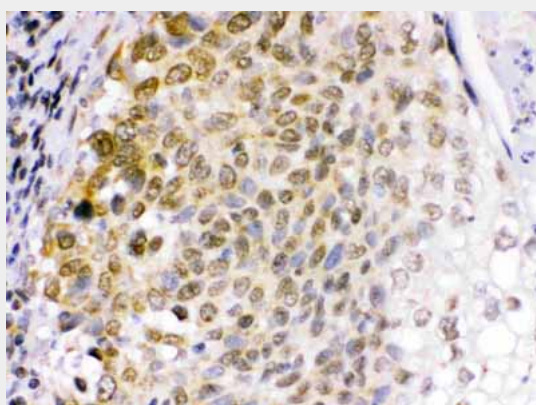
Anti-EME1 Picoband Antibody - Images



Anti- EME1 Picoband antibody, ABO12490, Western blotting All lanes: Anti EME1 (ABO12490) at 0.5ug/ml
Lane 1: HELA Whole Cell Lysate at 40ug
Lane 2: JURKAT Whole Cell Lysate at 40ug
Lane 3: HUT Whole Cell Lysate at 40ug
Predicted bind size: 62KD
Observed bind size: 62KD



Anti- EME1 Picoband antibody, ABO12490, IHC(P) IHC(P): Rat Intestine Tissue



Anti- EME1 Picoband antibody, ABO12490, IHC(P) IHC(P): Human Lung Cancer Tissue

Anti-EME1 Picoband Antibody - Background

Crossover junction endonuclease EME1 is an enzyme that in humans is encoded by the EME1 gene. It is mapped to 17q21.33. This gene encodes a protein that complexes with methyl methanesulfonate-sensitive UV-sensitive 81 protein to form an endonuclease complex. The encoded protein interacts with specific DNA structures including nicked Holliday junctions, 3'-flap structures and aberrant replication fork structures. Also, this protein may be involved in repairing DNA damage and in maintaining genomic stability. Alternative splicing results in multiple transcript

variants.