

ARG59464 anti-EME1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes EME1
Tested Reactivity	Hu, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	EME1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 520-561 of Human EME1. (DKERQNLADIQVRRGEGVTSTSRIGPELSRRIYLQMTTLQ)
Conjugation	Un-conjugated
Alternate Names	MMS4 homolog; MMS4L; SLX2A; EC 3.1.22.-; Crossover junction endonuclease EME1; hMMS4

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: By heat mediation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

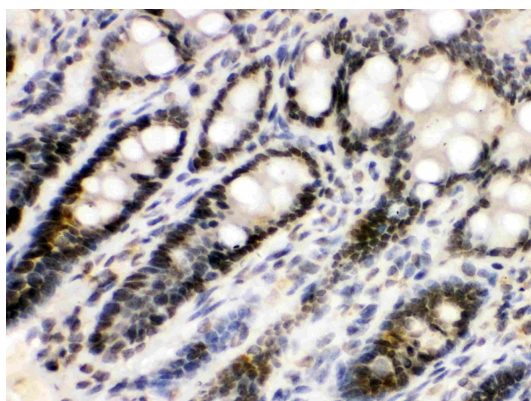
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

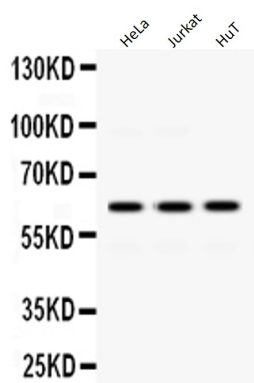
Gene Symbol	EME1
Gene Full Name	essential meiotic structure-specific endonuclease 1
Background	This gene encodes a protein that complexes with methyl methanesulfonate-sensitive UV-sensitive 81 protein to form an endonuclease complex. The encoded protein interacts with specific DNA structures including nicked Holliday junctions, 3'-flap structures and aberrant replication fork structures. This protein may be involved in repairing DNA damage and in maintaining genomic stability. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Oct 2009]
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. [UniProt]
Calculated Mw	63 kDa
Cellular Localization	Nucleus, nucleolus. Note=Recruited to regions of DNA damage in S-phase cells. [UniProt]

Images



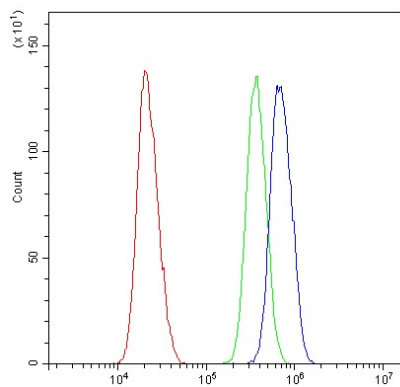
ARG59464 anti-EME1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat intestine stained with ARG59464 anti-EME1 antibody.



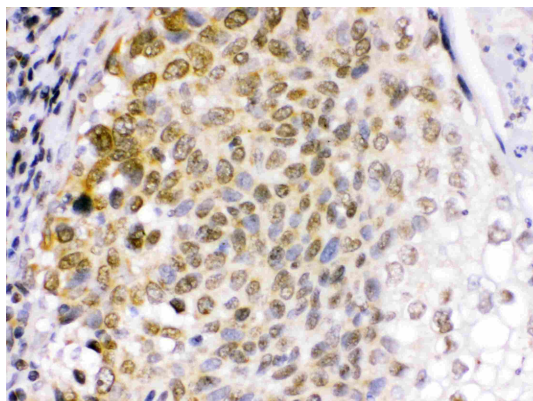
ARG59464 anti-EME1 antibody WB image

Western blot: 40 µg of HeLa, Jurkat and HuT whole cell lysates stained with ARG59464 anti-EME1 antibody at 0.5 µg/ml dilution.



ARG59464 anti-EME1 antibody FACS image

Flow Cytometry: U2OS cells were blocked with 10% normal goat serum and then stained with ARG59464 anti-EME1 antibody (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG59464 anti-EME1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer stained with ARG59464 anti-EME1 antibody.