# MEC1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | MEC1, Polyclonal Antibody |
| **Full Product Name** | Rabbit anti-Encephalitozoon cuniculi (strain GB-M1)(Microsporidian parasite) MEC1 Polyclonal Antibody |
| **Product Gene Name** | anti-MEC1 antibody |
| **Product Synonym Names** | MEC1 Antibody; Probable serine/threonine-protein kinase MEC1 homolog; EC 2.7.11.1; ATR homolog; DNA-damage checkpoint kinase MEC1 homolog; MEC1 ECU02_1130 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Encephalitozoon cuniculi (strain GB-M1)(Microsporidian parasite) |
| **Form/Format** | Liquid<br>Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, pH7.4 |
| **Purity/Purification** | Antigen-affinity |
| **Preparation and Storage** | Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **Molecular Weight** | 209,007 Da |
| **3D Structure** | ModBase 3D Structure for Q8SSE7 |
| **Immunogen** | Recombinant Encephalitozoon cuniculi (strain GB-M1) (Microsporidian parasite) MEC1 protein |
| **Conjugation** | Non-conjugate |
| **Modification** | Unmodified |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-MEC1 antibody** | ELISA (EIA), WB (Western Blot) (ensure identification of antigen) |
| **Related Product Information for anti-MEC1 antibody** | MBS9004379 is an antibody targeting MEC1. Also known as Rabbit anti-Encephalitozoon cuniculi (strain GB-M1)(Microsporidian parasite) MEC1 Polyclonal Antibody. Reactive in Encephalitozoon cuniculi (strain GB-M1)(Microsporidian parasite). Host: Rabbit. |
| **Other Notes** | Small volumes of anti-MEC1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEC1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 19074032 |
| **NCBI GeneID** | 858628 |
| **NCBI Accession #** | NP_584638.1 |
| **UniProt Primary Accession #** | Q8SSE7 |

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| **UniProt Related Accession #** | CAD25142 |
| **GenBank Nucleotide #** | NM_001040827.1 |
| **NCBI Official Full Name** | PROTEIN KINASE OF THE PI3/PI4 FAMILY |
| **NCBI Official Symbol** | ECU02_1130 |
| **UniProt Protein Name** | Probable serine/threonine-protein kinase MEC1 homolog |
| **UniProt Synonym Protein Names** | ATR homolog; DNA-damage checkpoint kinase MEC1 homolog |
| **Protein Family** | Probable serine/threonine-protein kinase |
| **UniProt Gene Name** | MEC1 |
| **NCBI Protein Information** | PROTEIN KINASE OF THE PI3/PI4 FAMILY |
| **UniProt Comments for MEC1** | Serine/threonine protein kinase which activates checkpoint signaling upon genotoxic stresses such as ionizing radiation (IR), ultraviolet light (UV), or DNA replication stalling, thereby acting as a DNA damage sensor. Recognizes the substrate consensus sequence [ST]-Q. Recruited to DNA lesions in order to initiate the DNA repair by homologous recombination. Phosphorylates histone H2A to form H2AS128ph (gamma-H2A) at sites of DNA damage, also involved in the regulation of DNA damage response mechanism. Required for cell growth and meiotic recombination (). |
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