# EME1 Antibody [clone MTA31 7H2/1] (V8532)

| Catalog No. | Formulation | Size |
|---|---|---|
| V8532-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8532-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8532SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | MTA31 7H2/1 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | Q96AY2 |
| **Localization** | Nucleus |
| **Applications** | Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT |
| **Limitations** | This EME1 antibody is available for research use only. |



## Description

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.

## Application Notes

Optimal dilution of the EME1 antibody should be determined by the researcher.

## Immunogen

His-tagged recombinant Eme1 of human origin was used as the immunogen for the EME1 antibody.

## Storage

Store the EME1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).


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