

# Anti-Japanese encephalitis virus E glycoprotein antibody [JE1] ab41671

## 8 References

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-Japanese encephalitis virus E glycoprotein antibody [JE1]  |
| <b>Description</b>         | Mouse monoclonal [JE1] to Japanese encephalitis virus E glycoprotein  |
| <b>Host species</b>        | Mouse   |
| <b>Tested applications</b> | <b>Suitable for:</b> WB, ELISA, Dot blot, ICC/IF  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Japanese encephalitis virus   |
| <b>Immunogen</b>           | Tissue, cells or virus corresponding to Japanese encephalitis virus Japanese encephalitis virus E glycoprotein.   |
| <b>General notes</b>       | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p> |

### Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | Preservative: 0.1% Proclin 150<br>Constituents: 10% BSA, 89.9% RPMI 1640                                  |
| <b>Purity</b>               | Tissue culture supernatant  |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | JE1   |
| <b>Isotype</b>              | IgG2a   |
| <b>Light chain type</b>     | kappa   |

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab41671 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes   |
|-------------|-----------|---|
| WB          |           | Use at an assay dependent concentration. PubMed: 21124882 |
| ELISA       |           | Use at an assay dependent concentration.                  |
| Dot blot    |           | Use at an assay dependent concentration.                  |
| ICC/IF      |           | 1/5 - 1/20.   |

## Target

### Relevance

Japanese encephalitis virus E glycoprotein is one of three structural proteins encoded by the viral genome. It is thought to be involved in viral adhesion and entry into host cells, hemagglutination, cellular tropism, viral virulence, and the induction of protective immune responses. Japanese encephalitis (JE) is a Flavivirus; these are small, enveloped RNA viruses that use arthropods such as mosquitoes for transmission to their vertebrate hosts. Flaviviruses consist of three structural proteins: the core nucleocapsid protein C, and the envelope glycoproteins M and E. Glycoprotein E is a class II viral fusion protein that mediates both receptor binding and fusion. Glycoprotein E is comprised of three domains: domain I (dimerisation domain) is an 8-stranded beta barrel, domain II (central domain) is an elongated domain composed of twelve beta strands and two alpha helices, and domain III (immunoglobulin-like domain) is an IgC-like module with ten beta strands. Domains I and II are intertwined. Domain II can be divided into two structural components, both of which comprise alpha-beta sandwich folds.

### Cellular localization

membrane

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