

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse FOLR4 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) FOLR1, rmFOLR2, recombinant human (rh) FOLR3, or rhFOLR4 is observed. In Western blots, no cross-reactivity with rhFOLR1, 2, or 3 is              |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 721601                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse FOLR4<br>Gly20-Ser100<br>Accession # Q9EQF4                                                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

FOLR4 (folate receptor 4; also FR4, FR-d and FOLBP-3) is a 35 kDa glycoprotein member of the folate receptor family. It is found on mouse Treg cells, particularly those classified as natural, and CD4<sup>+</sup> CD25<sup>+</sup> T cells that produce low amounts of IFN-γ. Although folate family receptors can internalize folate, they are generally not the principal conduits for folate uptake. Mouse FOLR4 preproprecursor is 244 amino acids (aa) in length. It contains a 19 aa signal sequence plus a 225 aa proform. While there are no definitive structural motifs, there is presumably a C-terminal propeptide that gives rise to a GPI-linkage. There are three potential isoforms. One is 37 kDa in size and shows a 36 aa insertion after Glu155. Two others show a deletion of aa 47-109, and a 17 aa substitution for aa 157-244. Over aa 20-100, mouse FOLR4 shares 84% and 70% aa identity with rat and human FOLR4, respectively.

## PRODUCT SPECIFIC NOTICES

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