

DESCRIPTION

Species Reactivity	Mouse
Specificity	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
Source	Monoclonal Rat IgG _{2A} Clone # 721601
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse FOLR4 Gly20-Ser100 Accession # Q9EQF4
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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⁺ CD25⁺ 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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