Mouse FOLR4 Antibody

Monoclonal Rat IgG_{2A} Clone # 721601

Catalog Number: MAB6124

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 observed.
Source	Monoclonal Rat IgG_{2A} Clone # 721601
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse FOLR4 Gly20-Ser100 Accession # Q9EQF4
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

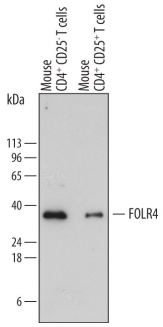
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Mouse FOLR4 by Western Blot. Western blot shows lysates of mouse $CD4^+CD25^-$ T cells and mouse $CD4^+CD25^+$ T cells. PVDF membrane was probed with 1 µg/mL of Rat Anti-Mouse FOLR4 Monoclonal Antibody (Catalog # MAB6124) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody. A specific band was detected for FOLR4 at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.