

DESCRIPTION

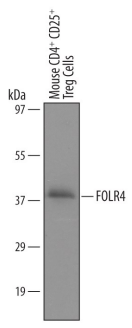
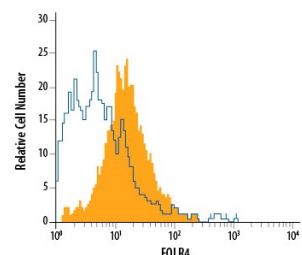
Species Reactivity	Mouse
Specificity	Detects mouse FOLR4 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) FOLR1, rhFOLR2, rhFOLR3, and rhFOLR4 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -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
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Western Blot</p>  <p>Detection of Mouse FOLR4 by Western Blot. Western blot shows lysates of mouse CD4⁺CD25⁺ regulatory T cells. PVDF Membrane was probed with 1 µg/mL of Sheep Anti-Mouse FOLR4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6124) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for FOLR4 at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Flow Cytometry</p>  <p>Detection of FOLR4 in Mouse Splenocytes Gated on FoxP3 Cells by Flow Cytometry. Mouse splenocytes gated on FoxP3 cells treated with 10 µL/mL anti-CD3/anti-CD28, Recombinant Mouse IL-2 (Catalog # 402-ML), and Human TGF-β1 (Catalog # 100-B) for 3 days to induce T regulatory cells (Tregs) were stained with Sheep Anti-Mouse FOLR4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6124, filled histogram) or isotype control antibody (Catalog # 5-001-A, open histogram), followed by Allophycocyanin-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # F0127). To facilitate intracellular staining, cells were fixed and permeabilized with Flow Cytometry FoxP3 Staining Buffer (Catalog # FC011).</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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. <ul style="list-style-type: none"> ● 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-δ 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. Its function is unclear. 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.