

DESCRIPTION

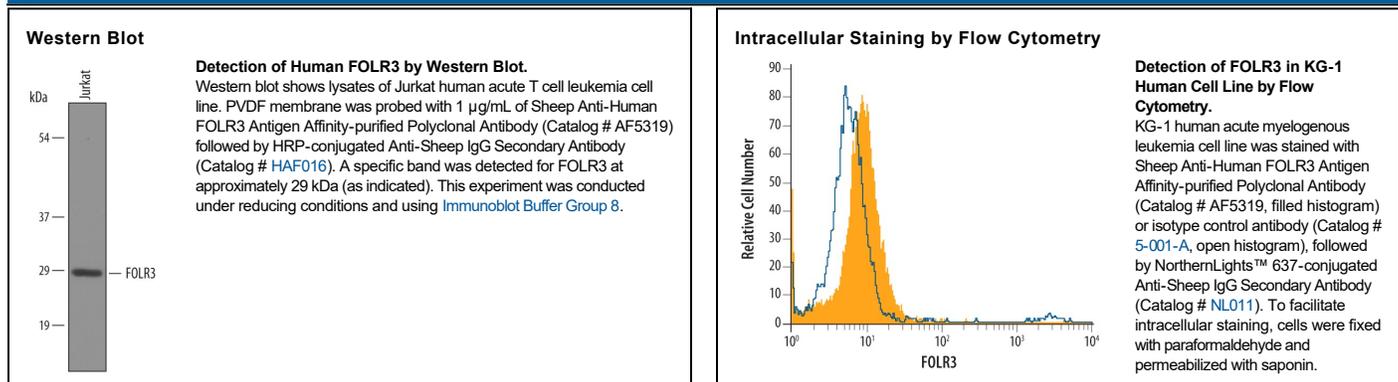
Species Reactivity	Human
Specificity	Detects human FOLR3 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human (rh) FOLR2 is observed and less than 1% cross-reactivity with rhFOLR1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human FOLR3 long isoform Ala20-Ser243 Accession # P41439
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 either lyophilized or 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
Intracellular Staining by 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



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

Folate receptor 3 (FOLR3), also known as folate receptor γ, is a 32 kDa protein that binds folic acid and reduced folates. Dietary folates are required for many key metabolic processes including nucleotide and methionine synthesis, the interconversion of glycine and serine, and histidine breakdown (1). Mature FOLR3 is a glycosylated protein that contains an imperfect carboxy terminal GPI anchor sequence (2, 3). A fraction of FOLR3 is GPI-linked to the cell surface, but the majority is released as a secreted protein (2). Mature human FOLR3 shares 74% and 83% amino acid (aa) sequence identity with FOLR1 and FOLR2, respectively. Orthologs of human FOLR3 have not been described in mouse or rat. A genetic polymorphism generates a truncated isoform that lacks the carboxy terminal 139 aa (2, 4). FOLR3 is expressed by cells of the myelocyte and B lymphocyte lineage as well as by various carcinomas (2, 3). FOLR3 is more highly expressed in ovarian carcinomas than in breast carcinomas or mesotheliomas (5). Unlike other folate receptors, FOLR3 does not exhibit stereoselectivity in the binding of folates (3).

References:

1. Fowler, B. *et al.* (2001) *Kidney Int.* **59**:S-221.
2. Shen, F. *et al.* (1994) *Biochemistry* **33**:1209.
3. Shen, F. *et al.* (1995) *Biochemistry* **34**:5660.
4. Wang, H. *et al.* (1998) *Nucl. Acids Res.* **26**:2132.
5. Yuan, Y. *et al.* (2009) *Hum. Pathol.* May 18 epub.