Alexa Fluor® 488 anti-FOLR1 (Folate Binding Protein) Antibody

Catalog# / Size	908305 / 25 µg 908306 / 100 µg
Clone	LK26
Regulatory Status	RUO
Other Names	Folate receptor alpha, FR-alpha, KB cells FBP, folate binding protein, folate receptor, adult, adult folate-binding protein, ovarian tumor-associated antigen MOv18
Isotype	Mouse IgG2a, κ
Description	Folate receptor (FOLR1), also known as folate receptor alpha, is a folate-binding protein (FBP) expressed in adults. It has high affinity for folic acid and its metabolites, including 5-methyltetrahydrofolate (5-MTF), the biologically active form of folic acid used for DNA synthesis and the cysteine cycle. FOLR1 mediates intracellular delivery of 5-MTF. FOLR1 is overexpressed in a variety of tumors, including breast, colorectal, and brain.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	This antibody was generated against gestational choriocarcinoma cell line, Lu-75 and detects folate-binding protein (FBP).
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	FC - Quality tested ICC - Verified
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.125 µg per million cells in 100 µL volume. For immunocytochemistry, a concentration range of 1.0 - 10.0 µg/mL is recommended. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Blue Laser (488 nm)
Additional Product Notes	For use in flow cytometry (FC), the 25 µg size is equivalent to approximately 200 tests. The 100 µg size is equivalent to 800 tests. For use in immunocytochemistry (ICC), it is recommended to fix/permeabilize with any of the following: -Fixation buffer (Cat. No. 420801) with 0.5 % Triton X-100 -Fixation buffer (Cat. No. 420801) with 100% ice-cold methanol -100% ice-cold methanol only

Application References **(PubMed link indicates BioLegend citation)**	1. Hviid TV, *et al.* 1999. *Prenat Diagn.* 19: 271. 2. Chesa-Garin P, *et al.* 1993. *Am J Pathol.* 142: 557. 3. Rettig WJ, *et al.* 1985. *Int J Cancer.* 35:469.
RRID	AB_3720527 (BioLegend Cat. No. 908305) AB_3720527 (BioLegend Cat. No. 908306)

Antigen Details

Structure	The LK26 antigen is a 29.8 kD cell surface glycoprotein.
Distribution	Plasma membrane, cytoplasm
Function	Receptor
Interaction	Anchored to plasma membrane via a glycosyl-phosphatidylinositol (GPI) linkage
Ligand/Receptor	Folate (folic acid) and its metabolites
Biology Area	DNA Repair/Replication, Stem Cells
Molecular Family	Carrier Proteins
Antigen References	1. Hviid TV, *et al.* 1999. *Prenat Diagn.* 19: 271. 2. Chesa-Garin P, *et al.* 1993. *Am J Pathol.* 142: 557. 3. Rettig WJ, *et al.* 1985. *Int J Cancer.* 35:469.
Gene ID	2348

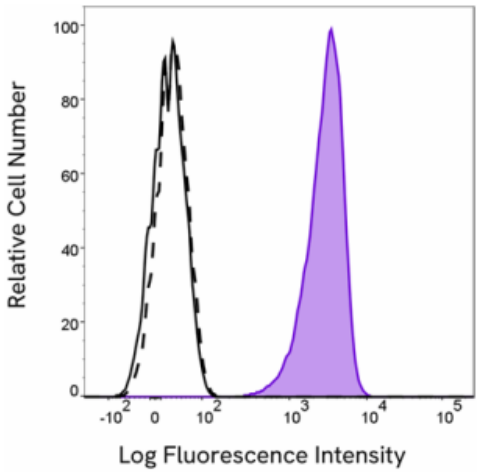
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol
- Immunocytochemistry Staining Protocol

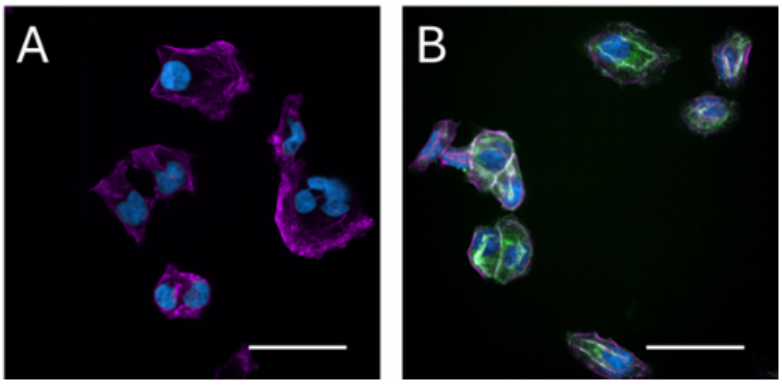
Other Formats

Purified anti-FOLR1 (Folate Binding Protein), PE anti-FOLR1 (Folate Binding Protein), TotalSeq™- A1592 anti-FOLR1 (Folate Binding Protein), Alexa Fluor® 488 anti-FOLR1 (Folate Binding Protein) Antibody, Alexa Fluor® 647 anti-FOLR1 (Folate Binding Protein) Antibody

Product Data



KB cells (positive control, filled histogram) and U-251 MG cells (negative control, open histogram) were stained with Alexa Fluor® 488 anti-FOLR1 (clone LK26), or Alexa Fluor® 488 mouse IgG2a, κ Isotype Control (Cat. No. 407121) (dashed histogram, representative histogram for both cell lines).



U-251 MG cells (negative cell line, panel A) and KB cells (positive cell line, panel B) and were fixed with 4% PFA Fixation Buffer (Cat. No. 420801) for 10 minutes and permeabilized with 100% ice-cold methanol for 10 minutes and blocked with 5% FBS for 1 hour at room temperature. Cells were then stained with Alexa Fluor® 488 anti-FOLR1 (clone LK26, green). Microtubules were counterstained with Flash Phalloidin Red 594 (Cat. No. 424203, magenta), and nuclei were counterstained with DAPI (Cat. No. 422801, blue). The images were captured on a Revvity Operetta CLS™ High Content Analysis System with a 63X objective and merged. Scale bar: 50 µm

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