abcam

ab234190

Anti-FOLR2 antibody [EM-35]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.0975% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing FOLR2 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P14207
Clone number	EM-35
Purification technique	Affinity purification Protein A
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purity > 95% (by SDS-PAGE).

Reactivity data

Flow Cyt

Tested

Species	Transfected cell line
Dilution info	1-4 µg/mL
Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information FOLR2

Function	Binds to folate and reduced folic acid derivatives and mediates delivery of 5-methyltetrahydrofolate and folate analogs into the interior of cells. Has high affinity for folate and folic acid analogs at neutral pH. Exposure to slightly acidic pH after receptor endocytosis triggers a conformation change that strongly reduces its affinity for folates and mediates their release.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Folate receptor beta also known as FOLR2 is a protein with a molecular mass of approximately 32 kDa. It facilitates the transport of folate into cells. FOLR2 binds folate with high affinity and plays an important role in cellular metabolism. The receptor is mainly expressed in the placenta and certain myeloid cells such as macrophages and monocytes. Its expression is also notable in certain cancer cells but not in most normal tissues.

Biological function summary	Folate receptor beta plays a significant role in folate uptake contributing to DNA synthesis and repair processes. FOLR2 as a part of the cell membrane forms a complex with other molecules to capture and internalize folate from the extracellular environment. This process is essential for the proliferation and survival of cells that require large amounts of folate including developing embryos and certain immune cells.
Pathways	The function of folate receptor beta connects with the folate-mediated one-carbon metabolism pathway critical for nucleotide biosynthesis and methylation reactions. This pathway influences the synthesis of purines and pyrimidines supporting DNA replication and repair. FOLR2 interacts with folate transport proteins and enzymes involved in the methionine cycle which interlinks with amino acid metabolism and epigenetic regulation.
Associated diseases and disorders	Folate receptor beta is associated with rheumatoid arthritis and ovarian cancer. In rheumatoid arthritis FOLR2 expression on activated macrophages indicates its potential as a biomarker and target for therapy. The overexpression of FOLR2 in ovarian cancer makes it a target for folate-linked therapeutic agents. The relationship between FOLR2 and immune proteins in inflammatory conditions highlights its role in modulating immune responses in disease contexts.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

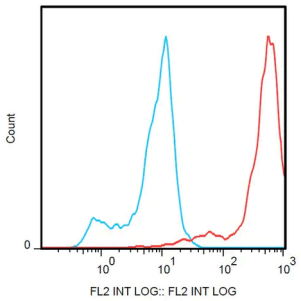
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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Terms & Conditions.

1 product image



Flow Cytometry - Anti-FOLR2 antibody [EM-35] (ab234190)

Flow cytometric analysis of FOLR2 transfectants labeling FOLR2 with ab234190 (red) compared with a negative control (blue). Surface staining.

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