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FOLR2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5032a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P14207
Other Accession	Q05685
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	29280
Antigen Region	18-46

Additional Information

Gene ID	2350
Other Names	Folate receptor beta, FR-beta, Folate receptor 2, Folate receptor, fetal/placental, Placental folate-binding protein, FBP, FOLR2
Target/Specificity	This FOLR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 18-46 amino acids of human FOLR2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FOLR2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	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.
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor. Secreted
Tissue Location	Expressed in placenta and hematopoietic cells. Expression is increased in malignant tissues

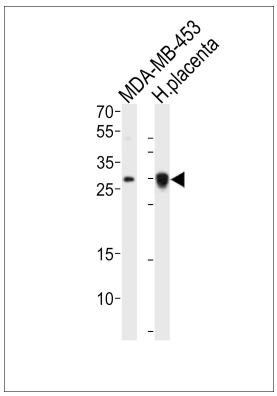
Background

FOLR2 is a member of the folate receptor (FOLR) family, and these genes exist in a cluster on chromosome 11. Members of this gene family have a high affinity for folic acid and for several reduced folic acid derivatives, and they mediate delivery of 5-methyltetrahydrofolate to the interior of cells. This protein has a 68% and 79% sequence homology with the FOLR1 and FOLR3 proteins, respectively. Although this protein was originally thought to be specific to placenta, it can also exist in other tissues, and it may play a role in the transport of methotrexate in synovial macrophages in rheumatoid arthritis patients.

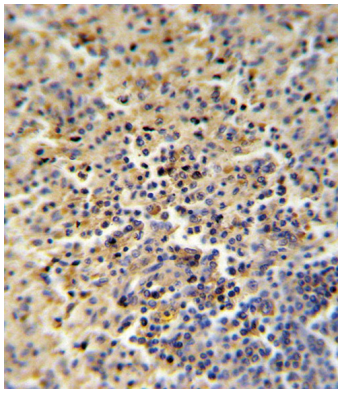
References

Puig-Kroger, A., et al. Cancer Res. 69(24):9395-9403(2009) Boyles, A.L., et al. Genet. Epidemiol. 33(3):247-255(2009) Franke, B., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 85(3):216-226(2009)

Images

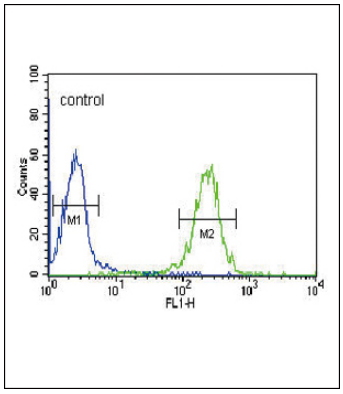


Western blot analysis of lysates from MDA-MB-453 cell line, human placenta tissue lysate (from left to right), using FOLR2 Antibody (N-term) (Cat. #AP5032a). AP5032a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



FOLR2 Antibody (N-term) (Cat. #AP5032a) IHC analysis in formalin fixed and paraffin embedded human spleen followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FOLR2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

FOLR2 Antibody (N-term) (Cat. #AP5032a) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Citations

- Autoradiographical assessment of inflammation-targeting radioligands for atherosclerosis imaging: potential for plaque phenotype identification
- Folate receptor-targeted F MR molecular imaging and proliferation evaluation of lung cancer.
- Macrophage folate receptor-targeted antiretroviral therapy facilitates drug entry, retention, antiretroviral activities and biodistribution for reduction of human immunodeficiency virus infections.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.