10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FOLR2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5032a

Specification

FOLR2 Antibody (N-term) - Product Information

Application	**WB, FC, IHC-P,E**
Primary Accession	P14207
Other Accession	Q05685
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**18-46**

FOLR2 Antibody (N-term) - 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
FC~~1:10~50
IHC-P~~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.

FOLR2 Antibody (N-term) - 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

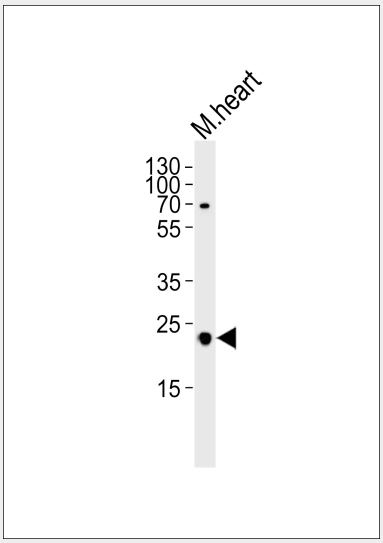
Tissue Location
Expressed in placenta and hematopoietic cells. Expression is increased in malignant tissues

FOLR2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FOLR2 Antibody (N-term) - Images



Western blot analysis of lysate from mouse heart tissue lysate, using FOLR2 Antibody (N-term)(Cat. #AP5032a). AP5032a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

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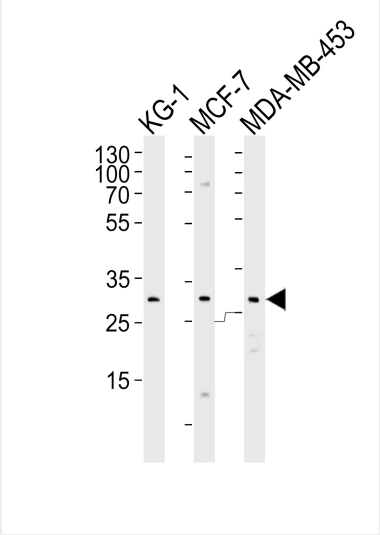
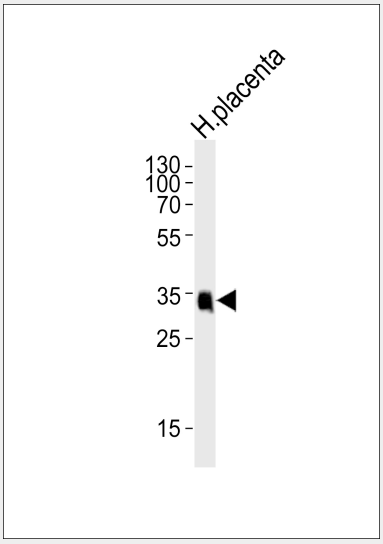


Western blot analysis of lysates from KG-1, MCF-7, MDA-MB-453 cell line (from left to right), using FOLR2 Antibody (N-term)(Cat. #AP5032a). AP5032a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



Western blot analysis of lysate from human placenta tissue lysate, using FOLR2 Antibody (N-term)(Cat. #AP5032a). AP5032a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

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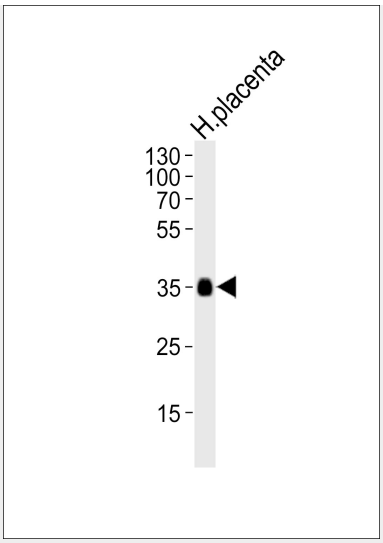
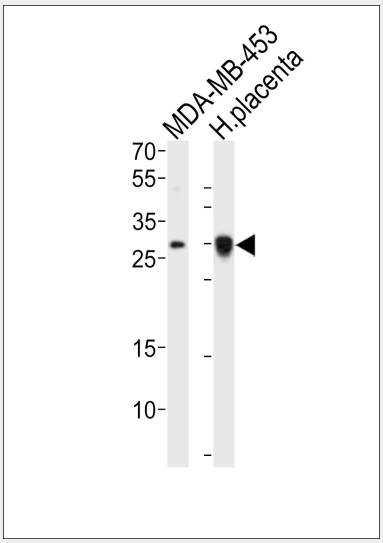


Western blot analysis of lysate from human placenta tissue lysate, using FOLR2 Antibody (N-term)(Cat. #AP5032a). AP5032a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35ug.



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.

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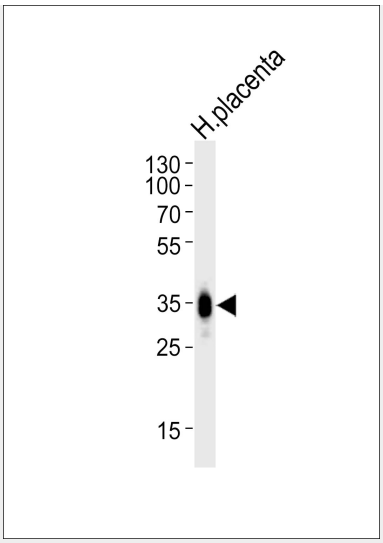
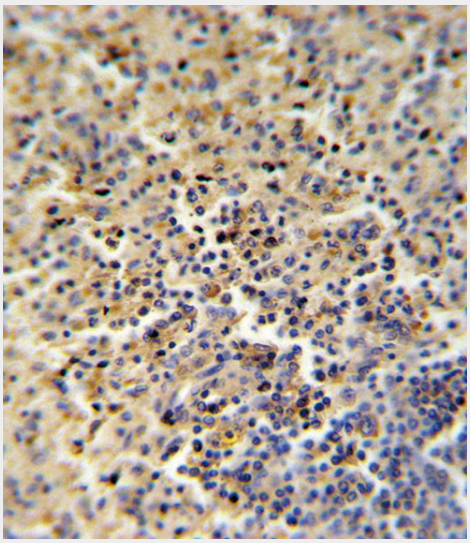


Western blot analysis of lysate from human placenta tissue, using FOLR2 Antibody (N-term)(Cat. #AP5032a). AP5032a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



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.

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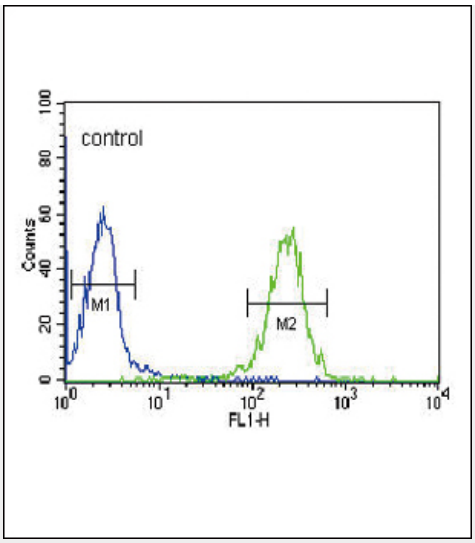

FOLR2 Antibody (N-term) (Cat. #AP5032a) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

FOLR2 Antibody (N-term) - 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.

FOLR2 Antibody (N-term) - 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)

FOLR2 Antibody (N-term) - 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.