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FOLR1
Purified Mouse Monoclonal Antibody
Catalog # AO2726a

Specification

FOLR1 - Product Information

Application	**E, WB, ICC, IHC**
Primary Accession	P15328
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2a**
Calculated MW	**29.8kDa KDa**

Immunogen
Purified recombinant fragment of human FOLR1 (AA: 41-227) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

FOLR1 - Additional Information

Gene ID 2348

Other Names
FBP; FOLR

Dilution
E~~ 1/10000
WB~~ 1/500 - 1/2000
ICC~~ 1/100 - 1/500
IHC~~ 1/200 - 1/1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FOLR1 is for research use only and not for use in diagnostic or therapeutic procedures.

FOLR1 - Protein Information

Name FOLR1

Synonyms FOLR

Function
Binds to folate and reduced folic acid derivatives and mediates delivery of

5-methyltetrahydrofolate and folate analogs into the interior of cells (PubMed:19074442, PubMed:23851396, PubMed:23934049, PubMed:2527252, PubMed:8033114, PubMed:8567728). Has high affinity for folate and folic acid analogs at neutral pH (PubMed:23851396, PubMed:23934049, PubMed:2527252, PubMed:8033114, PubMed:8567728). Exposure to slightly acidic pH after receptor endocytosis triggers a conformation change that strongly reduces its affinity for folates and mediates their release (PubMed:8567728). Required for normal embryonic development and normal cell proliferation (By similarity).

Cellular Location
Cell membrane; Lipid-anchor, GPI-anchor Apical cell membrane; Lipid-anchor, GPI- anchor Basolateral cell membrane; Lipid-anchor, GPI-like-anchor. Secreted Cytoplasmic vesicle. Cytoplasmic vesicle, clathrin-coated vesicle. Endosome. Note=Endocytosed into cytoplasmic vesicles and then recycled to the cell membrane

Tissue Location
Primarily expressed in tissues of epithelial origin. Expression is increased in malignant tissues. Expressed in kidney, lung and cerebellum. Detected in placenta and thymus epithelium.

FOLR1 - 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

FOLR1 - Images

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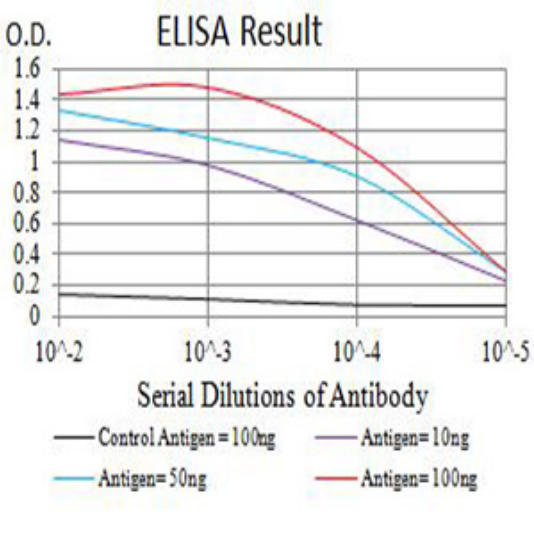

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

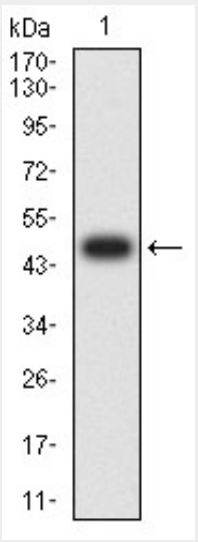

Figure 2:Western blot analysis using FOLR1 mAb against human FOLR1 (AA: 41-227) recombinant protein. (Expected MW is 48 kDa)

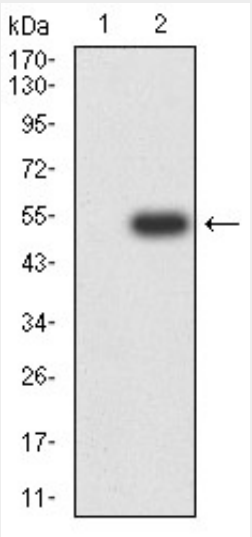

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Figure 3:Western blot analysis using FOLR1 mAb against HEK293 (1) and FOLR1 (AA: 41-227)-hIgGFc transfected HEK293 (2) cell lysate.

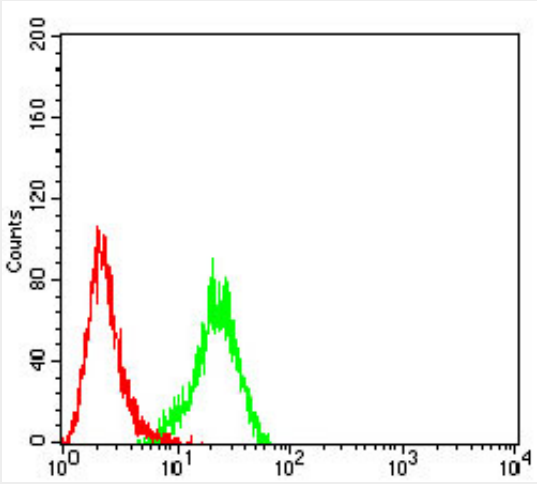

Figure 5:Flow cytometric analysis of Hela cells using FOLR1 mouse mAb (green) and negative control (red).

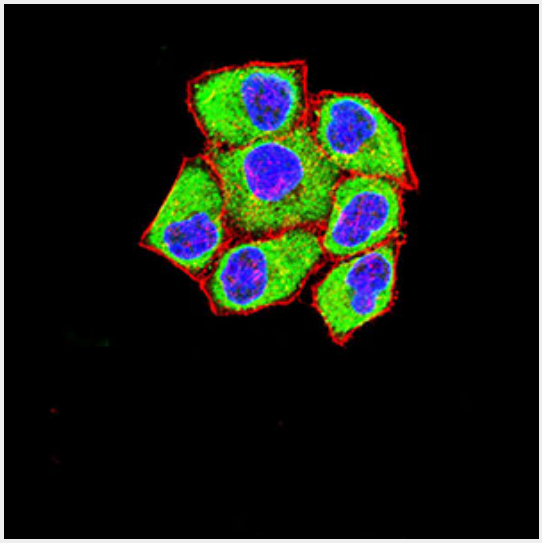

Figure 4:Immunofluorescence analysis of Hela cells using FOLR1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

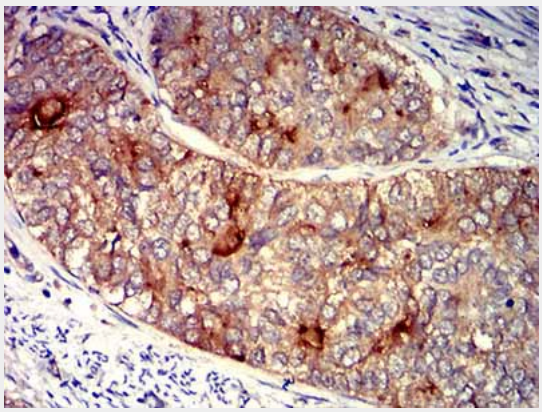

Figure 6:Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using

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FOLR1 mouse mAb with DAB staining.

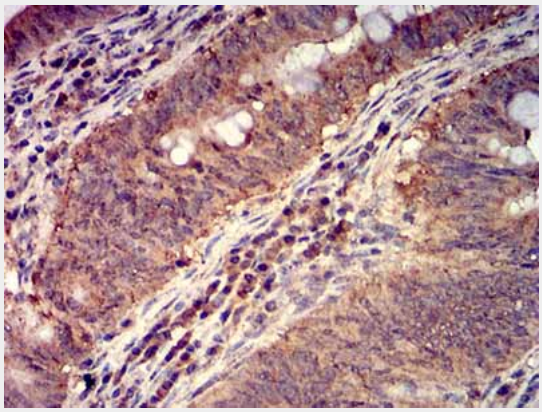

Figure 7:Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using FOLR1 mouse mAb with DAB staining.

FOLR1 - References

1.Biosens Bioelectron. 2016 Apr 15;78:147-53.2.PLoS One. 2015 Mar 27;10(3):e0122209.