

**FOLR1**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2726a**

**Specification**

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**FOLR1 - Product Information**

Application	E, WB, ICC, IHC
Primary Accession	<a href="#">P15328</a>
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:<a href="http://www.uniprot.org/citations/19074442" target="\_blank">19074442</a>, PubMed:<a href="http://www.uniprot.org/citations/23851396" target="\_blank">23851396</a>, PubMed:<a href="http://www.uniprot.org/citations/23934049" target="\_blank">23934049</a>, PubMed:<a href="http://www.uniprot.org/citations/2527252" target="\_blank">2527252</a>, PubMed:<a href="http://www.uniprot.org/citations/8033114" target="\_blank">8033114</a>, PubMed:<a href="http://www.uniprot.org/citations/8567728" target="\_blank">8567728</a>). Has high affinity for folate and folic acid analogs at neutral pH (PubMed:<a href="http://www.uniprot.org/citations/23851396" target="\_blank">23851396</a>, PubMed:<a href="http://www.uniprot.org/citations/23934049" target="\_blank">23934049</a>, PubMed:<a href="http://www.uniprot.org/citations/2527252" target="\_blank">2527252</a>, PubMed:<a href="http://www.uniprot.org/citations/8033114" target="\_blank">8033114</a>, PubMed:<a href="http://www.uniprot.org/citations/8567728" target="\_blank">8567728</a>). Exposure to slightly acidic pH after receptor endocytosis triggers a conformation change that strongly reduces its affinity for folates and mediates their release (PubMed:<a href="http://www.uniprot.org/citations/8567728" target="\_blank">8567728</a>). 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 Cytometry](#)
- [Cell Culture](#)

#### FOLR1 - Images



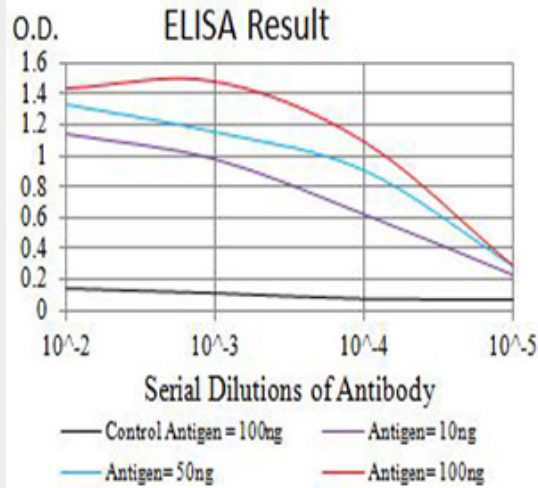


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

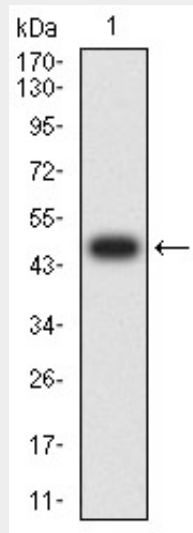


Figure 2: Western blot analysis using FOLR1 mAb against human FOLR1 (AA: 41-227) recombinant protein. (Expected MW is 48 kDa)

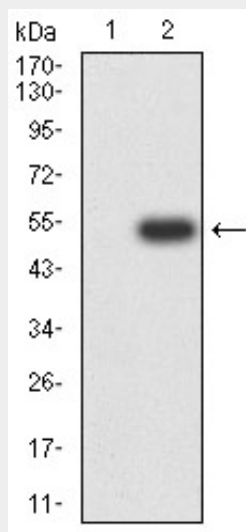


Figure 3:Western blot analysis using FOLR1 mAb against HEK293 (1) and FOLR1 (AA: 41-227)-hlgGfc transfected HEK293 (2) cell lysate.

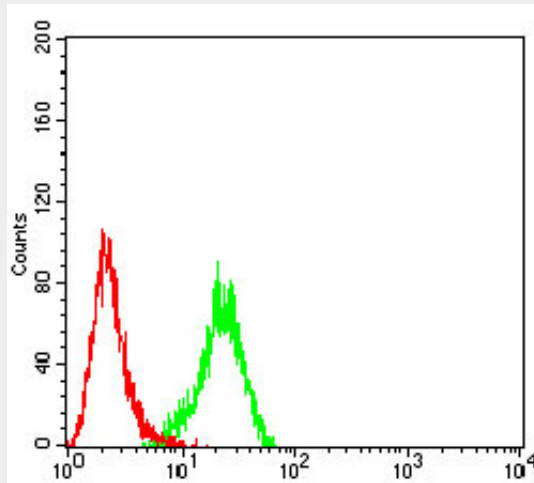


Figure 5:Flow cytometric analysis of Hela cells using FOLR1 mouse mAb (green) and negative control (red).

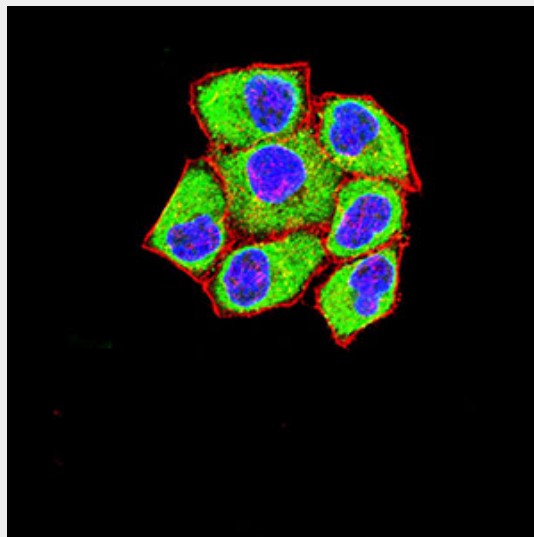


Figure 4:Immunofluorescence analysis of Hela cells using FOLR1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

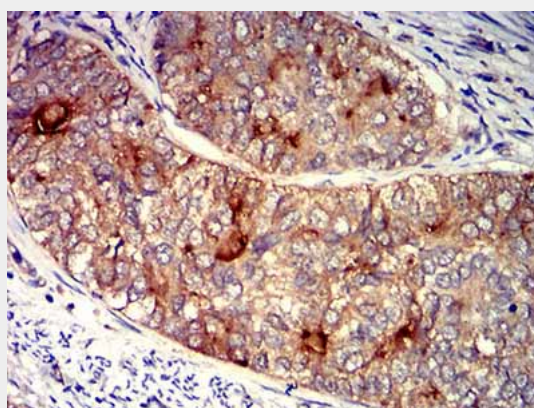


Figure 6:Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using

FOLR1 mouse mAb with DAB staining.

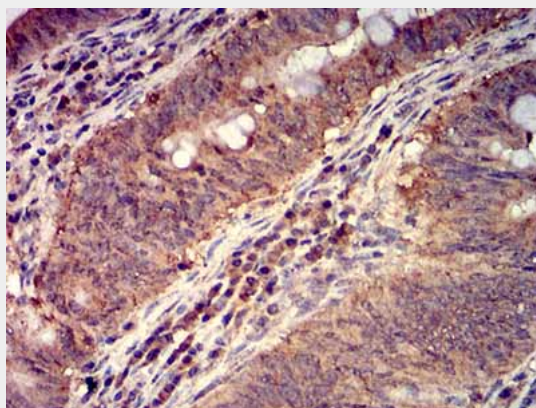


Figure 7: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using FOLR1 mouse mAb with DAB staining.

#### **FOLR1 - References**

1. Biosens Bioelectron. 2016 Apr 15;78:147-53. 2. PLoS One. 2015 Mar 27;10(3):e0122209.