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FOLR1

Purified Mouse Monoclonal Antibody
Catalog # AO2726a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P15328
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2G5C12
Isotype	Mouse IgG2a
Calculated MW	29819
Immunogen	Purified recombinant fragment of human FOLR1 (AA: 41-227) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	2348
Other Names	FBP; FOLR
Dilution	WB~~ 1/500 - 1/2000 IHC~~ 1/200 - 1/1000 ICC~~ 1/100 - 1/500 E~~ 1/10000
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.

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.

References

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

Images

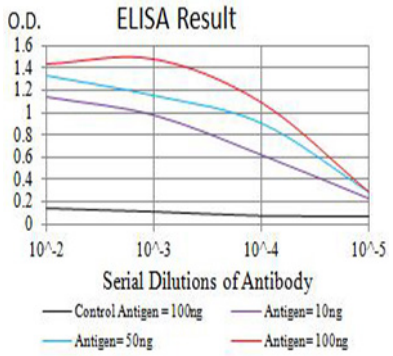

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

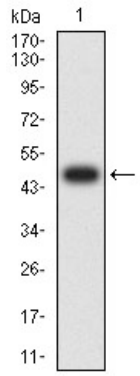

Figure 2:Western blot analysis using FOLR1 mAb against human FOLR1 (AA: 41-227) recombinant protein. (Expected MW is 48 kDa)

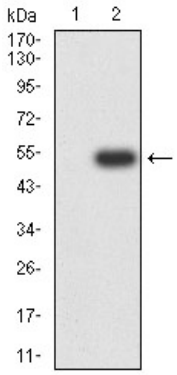

Figure 3:Western blot analysis using FOLR1 mAb against HEK293 (1) and FOLR1 (AA: 41-227)-hIgGFc transfected HEK293 (2) cell lysate.

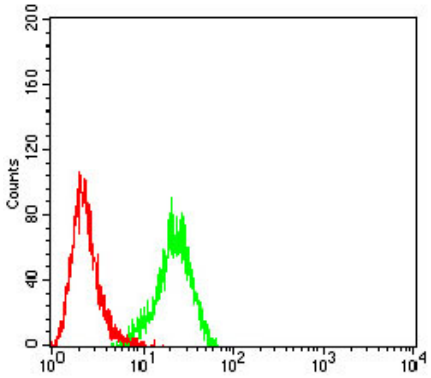

Figure 5:Flow cytometric analysis of Hela cells using FOLR1 mouse mAb (green) and negative control (red).

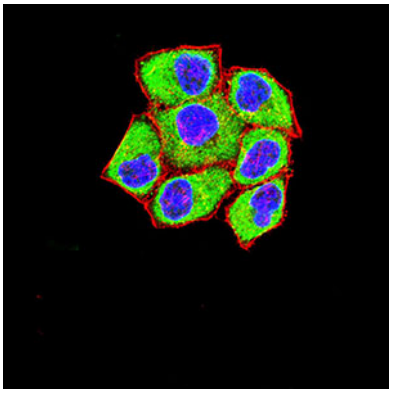

Figure 4:Immunofluorescence analysis of Hela cells using FOLR1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

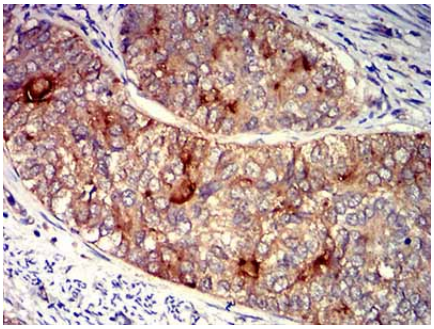

Figure 6:Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using FOLR1 mouse mAb with DAB staining.

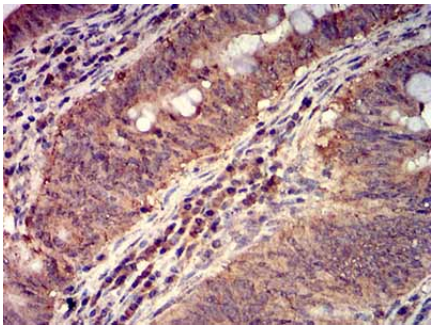

Figure 7:Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using FOLR1 mouse mAb with DAB staining.