

Mouse anti-Human FOLR1 Monoclonal Antibody | anti-FOLR1 antibody

FOLR1 (Folate receptor 1 (adult) Adult folate-binding protein, FBP, Folate receptor, adult, Folate receptor 1, Folate receptor alpha, FOLR, FR-alpha, KB cells FBP, MOv18, Ovarian tumor-associated antigen MOv18)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14691	Mouse	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot, Immunocytochemistry

PRODUCT SYNONYMS

FOLR1; Monoclonal Antibody; FOLR1 (Folate receptor 1 (adult) Adult folate-binding protein; FBP; Folate receptor; adult; Folate receptor 1; Folate receptor alpha; FOLR; FR-alpha; KB cells FBP; MOv18; Ovarian tumor-associated antigen MOv18); Anti -FOLR1 (Folate receptor 1 (adult) Adult folate-binding protein; anti-FOLR1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	9H125
Specificity	Recognizes human FOLR1. In Direct ELISA, shows no crossreactivity with recombinant human FOLR2, 3 or 4.
Purity/Purification	Purified by Protein G affinity chromatography from hybridoma culture supernatant.
Form/Format	Supplied as lyophilized powder from PBS, pH 7.4, 5% trehalose. Reconstitute with 200ul sterile PBS.
Concentration	0.5mg/ml (after reconstitution) (varies by lot)
Applicable Applications for anti-FOLR1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot), ICC (Immunocytochemistry)
Application Notes	Recommended Dilution: ELISA (Capture): 2-8ug/ml Flow Cytometry: 0.25ug labels/10e6 cells. Tested in MCF-7 cells. Western Blot: 2ug/ml detects human FOLR1 in human cortex tissue and HeLa cells under non-reducing conditions only. Immunocytochemistry: 8-25ug/ml. Tested on immersion fixed MCF-7 cells. Optimal dilutions to be determined by the researcher.
Immunogen	Recombinant protein corresponding to Arg25-Met233 of human FOLR1 expressed in CHO cells (P15328). Species Sequence Homology: mouse, rat; 83%
Grade	Affinity Purified
Preparation and Storage	Lyophilized powder may be stored at -20°C. Stable for 12 months after receipt at -20°C. Reconstitute with sterile PBS. Aliquot to avoid repeated freezing and thawing. Store at -20°C. . For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

IMAGES



FCM (Flow Cytometry)

Flow Cytometry detection of FOLR1 in MCF-7 human cell line using AAA14691. MCF-7 human breast cancer cell line was stained with AAA14691 (filled histogram) or isotype control antibody (open histogram), followed byPhycoerythrin-conjugated Anti-MouseIgG Secondary Antibody.



Application Data

Detection of FOLR1 in MCF-7 human cell line. FOLR1 was detected in immersion fixed MCF-7 human breast cancer cell line using AAA14691 (10ug/ml) for 3 hours at RT. Cells were stained with the DayLights 557-conjugated Anti-Mouse IgG Secondary Antibody (red) and



WB (Western Blot)

Western Blot detection of human FOLR1 using AAA14691. Lysates were prepared from Hela cells in non-reducing sample buffer, resolved by SDS-PAGE (30ug total protein/lane), and transferred to an Immobilon-P membrane. The blot was developed with AAA14691 (2ug/ml) and chemiluminescent detection substrate.

ADDITIONAL INFORMATION

Related Product Information for anti-FOLR1 antibody	FOLR1 is a 37-42kD protein that mediates the cellular uptake of folic acid and reduced folates. Dietary folates are required for many key metabolic processes including nucleotide and methionine synthesis, the interconversion of glycine and serine and histidine breakdown. Mature FOLR1 is an N-glycosylated protein that is anchored to the cell surface by a GPI linkage. Human FOLR1 shares 83% amino acid sequence identity with mouse and rat FOLR1. FOLR1 is predominantly expressed on epithelial cells and is dramatically up- regulated on many carcinomas. It is critically required during early embryogenesis as shown in knockout mice which die in utero with gross morphological defects. FOLR1 is internalized to the endosomal system where it dissociates from its ligand before recycling to the cell surface. A soluble form of FOLR1 can be proteolytically shed from the cell surface into the serum and breast milk.
Product Categories/Family for anti-FOLR1 antibody	Antibodies; Abs to Binding Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	9257213
NCBI GeneID	2348
NCBI Accession #	NP_057941.1
NCBI GenBank Nucleotide #	NM_016729.2
UniProt Accession #	P15328; Q53EW2; Q6FGT8; Q6LC90; Q9UCT2
NCBI Official Full Name	folate receptor alpha
NCBI Official Synonym Full Names	folate receptor 1 (adult)
NCBI Official Symbol	FOLR1
NCBI Official Synonym Symbols	FBP; FOLR
NCBI Protein Information	folate receptor alpha; FR-alpha; KB cells FBP; folate binding protein; folate receptor, adult; adult folate-binding protein; ovarian tumor-associated antigen MOv18
UniProt Protein Name	Folate receptor alpha
UniProt Gene Name	FOLR1
UniProt Synonym Gene Names	FOLR; FR-alpha; FBP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/folr1-antibody-clone-9h125-flow-cytometry-western-blot-immunocytochemistry-elisa/14691>