

36-2316: Anti-FOLH1 / PSMA (Prostate Epithelial Marker) Monoclonal Antibody(Clone: FOLH1/2354)

Clonality :	Monoclonal
Clone Name :	FOLH1/2354
Application :	WB,IHC
Reactivity :	Human
Gene :	FOLH1
Gene ID :	2346
Uniprot ID :	Q04609
Alternative Name :	Cell growth-inhibiting gene 27 protein (GIG27); Folate hydrolase 1 (FOLH1); Folylpoly-gamma-glutamate carboxypeptidase (FGCP); Glutamate carboxylase II (GCPII); Glutamate carboxypeptidase 2 (GCP2); Glutamate carboxypeptidase II Membrane glutamate carboxypeptidase N-acetylated-alpha-linked acidic dipeptidase I (NAALAD1 or NAALADase); Prostate-specific membrane antigen (PSM or PSMA); Pteroylpoly-gamma-glutamate carboxypeptidase
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant human FOLH1 protein fragment (around aa 232-433) (exact sequence is proprietary)

Description

Folate hydrolase 1 (FOLH1), also known as Prostate-specific membrane antigen (PSMA), is a type II transmembrane glycoprotein belonging to the M28 peptidase family. FOLH1 has two enzymatic activities, one as a prostate-specific integral membrane folate hydrolase and the other as a carboxypeptidase. In the prostate the protein is up-regulated in cancerous cells and is used as an effective diagnostic and prognostic indicator of prostate cancer.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Western Blot (1-2µg/ml); Immunohistochemistry (Formalin-fixed) (1-2µg/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

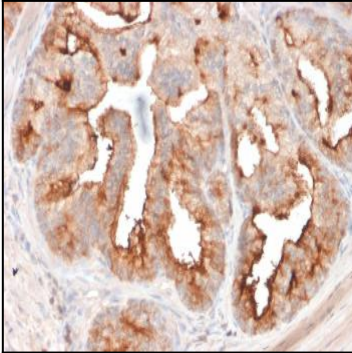


Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with FOLH1 Mouse Monoclonal Antibody (FOLH1/2354).

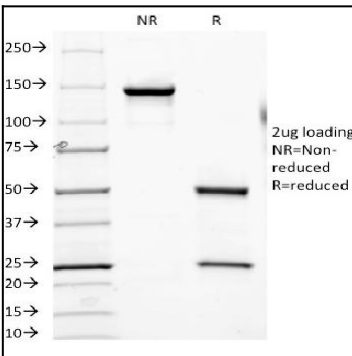


Fig. 2: SDS-PAGE Analysis Purified FOLH1 Mouse Monoclonal Antibody (FOLH1/2354). Confirmation of Integrity and Purity of Antibody.

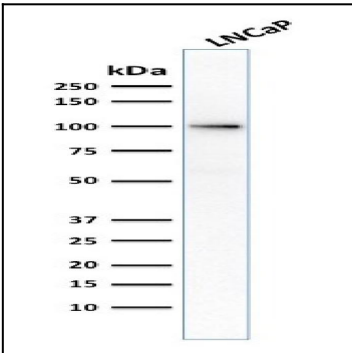


Fig. 3: Western Blot Analysis of human LNCaP cell lysate using FOLH1 Mouse Monoclonal Antibody (FOLH1/2354).

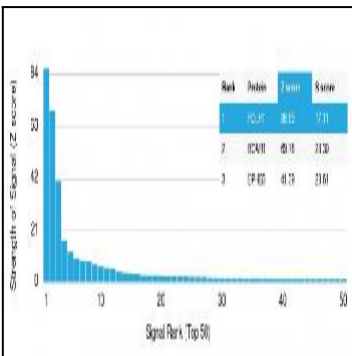


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using FOLH1 (PSMA) Mouse Monoclonal Antibody (FOLH1/2354). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.