9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

# 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 (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/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&degC followed by cooling at RT for 20 minutes);

9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

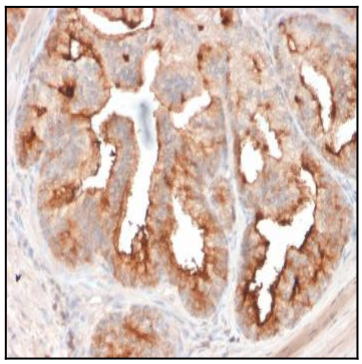

Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with FOLH1 Mouse Monoclonal Antibody (FOLH1/2354).

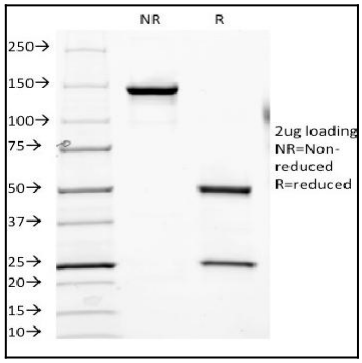


Fig. 2: SDS-PAGE Analysis Purified FOLH1 Mouse Monoclonal Antibody (FOLH1/2354). Confirmation of Integrity and Purity of Antibody.

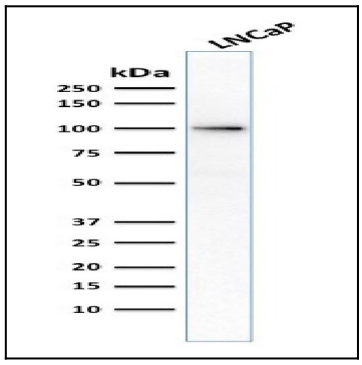


Fig. 3: Western Blot Analysis of human LNCaP cell lysate using FOLH1 Mouse Monoclonal Antibody (FOLH1/2354).

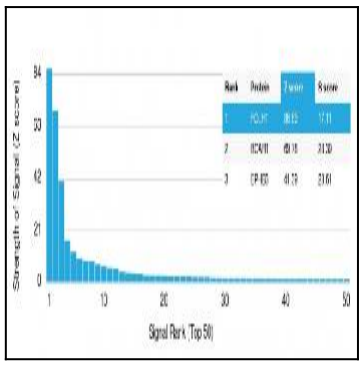


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using FOLH1 (PSMA) Mouse Monoclonal Antibody (FOLH1/2354). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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.