Datasheet: MCA2885

<table>
<thead>
<tr>
<th>Description</th>
<th>MOUSE ANTI PROSTATE SPECIFIC MEMBRANE ANTIGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>PROSTATE SPECIFIC MEMBRANE ANTIGEN</td>
</tr>
<tr>
<td>Other names</td>
<td>GCP II</td>
</tr>
<tr>
<td>Format</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>GCP-04</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

Product Details

| RRID        | AB_2106316 |

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin (1)</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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</tbody>
</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species Human

Species Cross Reacts with: Rat, Pig

Reactivity N.B. Antibody reactivity and working conditions may vary between species.

Product Form Purified IgG - liquid

Preparation Purified IgG prepared by affinity chromatography on Protein A

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)
Approx. Protein Concentrations
IgG concentration 1.0mg/ml

Immunogen
Recombinant fragment corresponding to amino acids 44-750 of human GCPII.

External Database Links
UniProt: Q04609
Entrez Gene: 2346 FOLH1

Synonyms
FOLH, NAALAD1, PSM, PSMA

Specificity
Mouse anti prostate specific Membrane Antigen antibody, clone GCP-04 recognises amino acids 100-104 of the extracellular domain of prostate specific membrane antigen (PSMA), otherwise known as GCPII (glutamate carboxypeptidase II), a 95-110 kDa type II transmembrane glycoprotein and member of the peptidase M28 family.

Nomenclature for GCPII is dependent upon tissue specificity. PSMA is assigned to GCPII of prostate origin which is up-regulated in prostate cancer and a reliable diagnostic marker. Folate hydrolase (FOLH1) describes GCPII in the intestine and is required for folate uptake, whilst NAALADase refers to GCPII expressed in the central nervous system, which acts to cleave N-acetylaspartylglutamate (NAAG) to release glutamate, implicated in pathological conditions including Alzheimer’s and Huntington’s disease.

Histology Positive Control Tissue
Human prostate, kidney or spinal cord.

References

Storage
Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee
18 months from date of despatch.

Health And Safety Information
Material Safety Datasheet documentation #10040 available at:

Regulatory
For research purposes only

Related Products
Recommended Secondary Antibodies
Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...)        RPE
Rabbit Anti Mouse IgG (STAR8...)        DyLight®800
Rabbit Anti Mouse IgG (STAR13...)       HRP
Goat Anti Mouse IgG (STAR76...)         RPE
Goat Anti Mouse IgG (STAR70...)         FITC
Goat Anti Mouse IgG (Fc) (STAR120...)   FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)        FITC
Goat Anti Mouse IgG (H/L) (STAR117...)  Alk. Phos., DyLight®488, DyLight®680,
                                         DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)