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#12702**Prostate Specific Membrane Antigen
(D4S1F) Rabbit mAb**

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit IgG	UniProt ID: #Q04609	Entrez-Gene Id: 2346
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Product Usage Information**Application**

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #66648.

Specificity/Sensitivity

Prostate Specific Membrane Antigen (D4S1F) Rabbit mAb recognizes endogenous levels of total prostate specific membrane antigen. An SDS resistant dimer at approximately 200 kDa can be detected depending on sample preparation conditions.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues in the extracellular domain of human prostate specific membrane antigen protein.

Background

Prostate specific membrane antigen (PSMA, also known as FOLH1), a type II transmembrane protein of the M28 family, has both folate hydrolase and N-acetylated-alpha-linked acidic dipeptidase activity. PSMA was originally identified in the LNCaP cell line, which was derived from a prostate adenocarcinoma lymph node metastasis (1,2). PSMA is an established prostate cancer marker (3); however, it is expressed in other tissues, including kidney, liver, and urinary bladder (4), and it is associated with tumor neovasculature (5) as well. Research studies suggest that PSMA is both a potential diagnostic readout and therapeutic target (6-8).

Background References

- Horoszewicz, J.S. et al. (1987) *Anticancer Res* 7, 927-35.
- Israeli, R.S. et al. (1993) *Cancer Res* 53, 227-30.
- Ben Jemaa, A. et al. (2010) *J Exp Clin Cancer Res* 29, 171.
- Kinoshita, Y. et al. (2006) *World J Surg* 30, 628-36.
- Chang, S.S. et al. (1999) *Mol Urol* 3, 313-320.
- Mease, R.C. et al. (2013) *Curr Top Med Chem* 13, 951-62.
- Frigerio, B. et al. (2013) *Eur J Cancer* 49, 2223-32.
- Denmeade, S.R. et al. (2012) *Sci Transl Med* 4, 140ra86.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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