



Qty: 100 µg/200 µL

Mouse anti-PSMA

Catalog No. 37-3900

Lot No.

## Mouse anti-PSMA

### FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

**CLONE:** 1H8H5

**ISOTYPE:** Mouse IgG<sub>1</sub>- kappa

### IMMUNOGEN

Synthetic peptide derived from the C-terminal region of the human PSMA.

### SPECIFICITY

This antibody is specific for the ~90 kDa human PSMA protein.

### REACTIVITY

Reactivity has been confirmed with human prostate cancer LNCap cell lysates.

Sample	Immuno-precipitation (native)	ELISA	Western Blotting
Human	0*	ND	+++
Immunogen	ND	+++	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

\* No reactivity detected under given protocol.

### USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

**ELISA:** 0.1-1.0 µg/mL  
**Western Blotting:** 1-3 µg/mL

### STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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**BACKGROUND**

PSMA (prostate specific membrane antigen) is a type II integral membrane glycoprotein.<sup>1,2</sup> It is highly expressed in the prostate epithelium, and also expressed in the small intestine, brain, kidney, liver, spleen, colon and the capillary endothelium of a variety of tumors. PSMA is expressed specifically in jejunum brush border membranes. In the brain, PSMA is highly expressed in the ventral striatum and brain stem. In the prostate, the PSMA cytosolic isoform is the most abundant form in normal tissue, the membrane-bound PSMA-1 form in primary prostate tumors. Recent evidence has shown that PSMA is also expressed in tumor-associated neovasculature and may become an effective target for monoclonal antibody-based anti-neovasculature therapy.<sup>3</sup>

**REFERENCES**

1. Grauer LS, et al. *Cancer Res.* 58:4787-4789, 1998.
2. Israeli RS, et al. *Cancer Res.* 53:227-230, 1993.
3. Ghosh A, et al. *J Cell Biochem.* 15:91(3):528-39, 2004.

**RELATED PRODUCTS**

<b>Product</b>	<b>Conjugate</b>	<b>Cat. No.</b>
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

<b>Conjugate</b>	<b>ZyMAX™ Goat x Rabbit IgG (H+L)</b>	<b>ZyMAX™ Goat x Mouse IgG (H+L)</b>
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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