

**RABBIT ANTI-PSMA (N-TERMINAL)  
POLYCLONAL ANTIBODY**

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<b>CATALOG NUMBER:</b>	AB10613	<b>QUANTITY:</b>	100 µg
<b>HOST:</b>	Rabbit	<b>CONCENTRATION:</b>	0.25 mg/mL
<b>BACKGROUND:</b>	<p>PSMA (prostate specific membrane antigen) is a type II, integral membrane glycoprotein, composed of a 19 amino acid intracellular domain containing the N-terminus, a 24 amino acid transmembrane region, and a 707 amino acid extracellular C-terminal domain. The PSMA gene has been cloned and sequenced, and has been localized to chromosome 11q. PSMA is highly expressed in prostate secretory-acinar epithelium, in some benign extraprostatic epithelial cells from breast, duodenum, and kidney tissues, and in prostate cancer. On the basis of its highly prostate-specific nature, PSMA has been used as a prostate cancer marker antigen and diagnostic target for prostate cancer detection. Recently, evidence of limited and specific endothelial PSMA expression has been discovered: the neovasculature of a wide variety of malignant neoplasms (lung, colon, breast, etc.) demonstrates PSMA expression. This finding suggests that PSMA may be an effective target for monoclonal antibody-based anti-neovasculature therapy. PSMA has also been identified in the human nervous system. Based on activity, immunoreactivity, and mRNA sequence comparison with one form of NAALADase, a neuropeptide that may modulate glutaminergic transmission in the nervous system, PSMA was found to be indistinguishable from NAALADase derived from human cerebellar cell isolates. Therefore, the form of NAALADase also known as PSMA is expressed in brain, where it makes up a significant fraction of brain NAALADase activity.</p>		
<b>SPECIFICITY:</b>	Recognizes PSMA in western blotting		
<b>IMMUNOGEN:</b>	Synthetic peptide derived from the N-terminus of human PSMA.		
<b>APPLICATIONS:</b>	Western Blotting: 1-3 µg/mL <i>Optimal working dilutions must be determined by end user.</i>		
<b>SPECIES REACTIVITY:</b>	Human (positive control: LNCaP FGC cells)		
<b>FORMAT:</b>	Epitope-affinity-purified from rabbit antiserum.		
<b>PRESENTATION:</b>	This polyclonal antibody is supplied as a 400 µL aliquot in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide.		
<b>STORAGE/HANDLING:</b>	Store at -20°C in undiluted aliquots for 1 year from date of shipment.		

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**REFERENCES:** Murphy GP, et al. *J Urology* 160:2396-2041, (1998).  
Chang SS, et al. *Cancer Res* 59:3192-3198, (1999).

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

*For research use only; not for use as a diagnostic.*

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