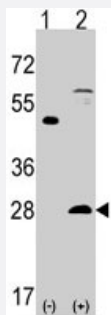


# PSMA5 polyclonal antibody

Catalog # PAB3099

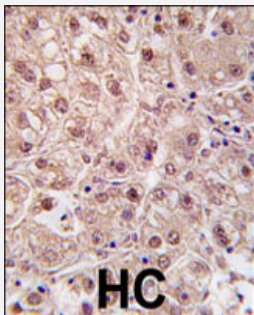
Size 400 uL

## Applications



### Western Blot (Transfected lysate)

Western blot analysis of PSMA5 (arrow) using rabbit PSMA5 polyclonal antibody (Cat # PAB3099). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PSMA5 gene (Lane 2) (Origene Technologies).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma reacted with PSMA5 polyclonal antibody (Cat # PAB3099), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of PSMA5.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human PSMA5.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A purification

<b>Recommend Usage</b>	Western Blot (1:1000) Immunohistochemistry (1:50) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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## Gene Info — PSMA5

<b>Entrez GeneID</b>	<a href="#">5686</a>
<b>Protein Accession#</b>	<a href="#">NP_002781;P28066</a>
<b>Gene Name</b>	PSMA5
<b>Gene Alias</b>	MGC117302, MGC125802, MGC125803, MGC125804, PSC5, ZETA
<b>Gene Description</b>	proteasome (prosome, macropain) subunit, alpha type, 5
<b>Omim ID</b>	<a href="#">176844</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. [provided by RefSeq]

## Other Designations

OTTHUMP00000013792|macropain subunit zeta|macropain zeta chain|multicatalytic endopeptidase complex zeta chain|proteasome alpha 5 subunit|proteasome component 5|proteasome subunit zeta|proteasome zeta chain

## Publication Reference

- [A probability-based approach for high-throughput protein phosphorylation analysis and site localization.](#)

Beausoleil SA, Villén J, Gerber SA, Rush J, Gygi SP.

Nature Biotechnology 2006 Oct; 24(10):1285.

- [The DNA sequence and biological annotation of human chromosome 1.](#)

Gregory SG, Barlow KF, McLay KE, Kaul R, Swarbreck D, Dunham A, Scott CE, Howe KL, Woodfine K, Spencer CC, Jones MC, Gillson C, Searle S, Zhou Y, Kokocinski F, McDonald L, Evans R, Phillips K, Atkinson A, Cooper R, Jones C, Hall RE, Andrews TD, Lloyd C, Ainscough R, Almeida JP, Ambrose KD, Anderson F, Andrew RW, Ashwell RI, Aubin K, Babbage AK, Bagguley CL, Bailey J, Beasley H, Bethel G, Bird CP, Bray-Allen S, Brown JY, Brown AJ, Buckley D, Burton J, Bye J, Carder C, Chapman JC, Clark SY, Clarke

Nature 2006 May; 441(7091):315.

- [Large-scale characterization of HeLa cell nuclear phosphoproteins.](#)

Beausoleil SA, Jedrychowski M, Schwartz D, Elias JE, Villen J, Li J, Cohn MA, Cantley LC, Gygi SP.

PNAS 2004 Aug; 101(33):12130.

## Pathway

- [Proteasome](#)