

## Datasheet: VPA00566

|                      |                         |
|----------------------|-------------------------|
| <b>Description:</b>  | RABBIT ANTI PSMB9       |
| <b>Specificity:</b>  | PSMB9                   |
| <b>Format:</b>       | Purified                |
| <b>Product Type:</b> | PrecisionAb™ Polyclonal |
| <b>Isotype:</b>      | Polyclonal IgG          |
| <b>Quantity:</b>     | 100 µl                  |

## Product Details

### 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).

|                  | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ■   |    |                | 1/1000             |

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

|                                 |                                                                                                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>           | Human                                                                                                                                                                |
| <b>Species Cross Reactivity</b> | Reacts with: Mouse, Rat<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species.                                                          |
| <b>Product Form</b>             | Purified IgG - liquid                                                                                                                                                |
| <b>Preparation</b>              | Rabbit polyclonal antibody purified by affinity chromatography                                                                                                       |
| <b>Buffer Solution</b>          | Phosphate buffered saline                                                                                                                                            |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                                                                                               |
| <b>Immunogen</b>                | KLH conjugated synthetic peptide corresponding to amino acid 205-239 of human PSMB9                                                                                  |
| <b>External Database Links</b>  | <b>UniProt:</b><br><a href="#">P28065</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">5698</a> PSMB9 <a href="#">Related reagents</a> |
| <b>Synonyms</b>                 | LMP2, PSMB6i, RING12                                                                                                                                                 |

## Specificity

**Rabbit anti Human PSMB9 antibody** recognizes proteasome subunit beta type-9, also known as large multifunctional peptidase 2, low molecular mass protein 2, macropain chain 7, multicatalytic endopeptidase complex chain 7, proteasome catalytic subunit 1i, proteasome chain 7, proteasome subunit beta 6i or proteasome subunit beta-1i.

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. PSMB9 gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. PSMB9 is located in the class II region of the MHC (major histocompatibility complex). Expression of PSMB9 is induced by gamma interferon and PSMB9 product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit (provided by RefSeq, Mar 2010).

Rabbit anti Human PSMB9 antibody detects a band of 23 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

|                                      |                                                                                                                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Western Blotting</b>              | Anti PSMB9 detects a band of approximately 23 kDa in Raji cell lysates                                                                                                                                              |
| <b>Instructions For Use</b>          | Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.                                       |
| <b>Storage</b>                       | Store undiluted at -20°C, avoiding repeated freeze thaw cycles                                                                                                                                                      |
| <b>Shelf Life</b>                    | As supplied, 12 months from date of despatch                                                                                                                                                                        |
| <b>Acknowledgements</b>              | PrecisionAb™ is a trademark of Bio-Rad Laboratories                                                                                                                                                                 |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at:<br>Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                          |

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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