

## Datasheet: VPA00618

|                      |                         |
|----------------------|-------------------------|
| <b>Description:</b>  | RABBIT ANTI S6          |
| <b>Specificity:</b>  | S6                      |
| <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<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<br>2% Sucrose                                                                                                                                     |
| <b>Immunogen</b>                | Synthetic peptide encompassing part of the N terminal region of human S6                                                                                             |
| <b>External Database Links</b>  | <b>UniProt:</b><br><a href="#">P43686</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">5704</a> PSMC4 <a href="#">Related reagents</a> |
| <b>Synonyms</b>                 | MIP224, TBP7                                                                                                                                                         |

**Specificity**

**Rabbit anti Human S6 antibody** recognizes the 26S protease regulatory subunit 6B, also known as 26S proteasome AAA-ATPase subunit RPT3, MB67-interacting protein, or Tat-binding protein 7 or PSMC4 protein.

The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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. PSMC4 gene encodes a member of the triple-A family of ATPases that is a component of the 19S regulatory subunit and plays a role in 26S proteasome assembly. The encoded protein interacts with gankyrin, a liver oncoprotein, and may also play a role in Parkinson's disease through interactions with synphilin-1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for PSMC4 (provided by RefSeq, Jul 2012).

Rabbit anti Human S6 antibody detects a band of 47 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

**Western Blotting**

Rabbit anti S6 detects a band of approximately 47 kDa in HeLa cell lysates

**Instructions For Use**

Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

**Shelf Life**

As supplied, 12 months from date of despatch.

**Acknowledgements**

PrecisionAb™ is a trademark of Bio-Rad Laboratories.

**Health And Safety Information**

Material Safety Datasheet documentation #10045 available at:  
Antibody (10045): <https://www.bio-rad-antibodies.com/uploads/MSDS/10045.pdf>

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

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