

## Datasheet: AHP2662

<b>Description:</b>	RABBIT ANTI p27/Kip1 (pThr187)
<b>Specificity:</b>	p27/Kip1 (pThr187)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 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
Immunohistology - Paraffin	▪			1/50 - 1/100
Western Blotting	▪			1/500 - 1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

#### Target Species

Human

#### Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG - liquid

#### Antiserum Preparation

Antiserum to p27/Kip1 (pThr187) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.02% Sodium Azide  
50% Glycerol

<b>Immunogen</b>	Phospho specific-peptide corresponding to residues surrounding threonine 187 of human p27/Kip1
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P46527</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1027</a>    CDKN1B    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	KIP1
<b>Specificity</b>	<p><b>Rabbit anti p27/Kip1 (pThr187) antibody</b> recognizes p27/Kip1, also known as cyclin-dependent kinase inhibitor p27 or cyclin-dependent kinase inhibitor 1B, when phosphorylated at threonine 187. p27/Kip1 is a cyclin-dependent kinase inhibitor (CKI) that belongs to the Cip/Kip protein family (<a href="#">Cerqueira et al. 2014</a>).</p> <p>p27/Kip1 inhibits cyclin-dependent kinases (CDKs) and cyclin-CDK complexes; playing a role in the regulation of cell cycle progression at G1 (<a href="#">Cerqueira et al. 2014</a>). Phosphorylation of p27/Kip1 at threonine 187 by CDK2 leads to the ubiquitination and subsequent degradation of p27/Kip1 by the 26S proteasome (<a href="#">Das et al. 2016</a>).</p>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Cerqueira, A. <i>et al.</i> (2014) Genetic characterization of the role of the Cip/Kip family of proteins as cyclin-dependent kinase inhibitors and assembly factors. <a href="#">Mol Cell Biol. 34 (8): 1452-9.</a></li> <li>2. Das, R.K. <i>et al.</i> (2016) Cryptic sequence features within the disordered protein p27Kip1 regulate cell cycle signaling. <a href="#">Proc Natl Acad Sci U S A. 113 (20): 5616-21.</a></li> </ol>
<b>Storage</b>	<p>Store at -20°C</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10049 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP2662">https://www.bio-rad-antibodies.com/SDS/AHP2662</a> 10049
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...)    [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...)

[RPE](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

## Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**North & South** Tel: +1 800 265 7376

**Worldwide** Tel: +44 (0)1865 852 700

**Europe** Tel: +49 (0) 89 8090 95 21

**America** Fax: +1 919 878 3751

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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