

## Datasheet: AHP2662

**BATCH NUMBER 170302**

<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

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**Immunogen** Phospho specific-peptide corresponding to residues surrounding threonine 187 of human p27/Kip1

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**External Database Links**

**UniProt:**

[P46527](#)    [Related reagents](#)

**Entrez Gene:**

[1027](#)    CDKN1B    [Related reagents](#)

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**Synonyms** KIP1

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**Specificity** **Rabbit anti p27/Kip1 (pThr187) antibody** 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 ([Cerqueira \*et al.\* 2014](#)).

p27/Kip1 inhibits cyclin-dependent kinases (CDKs) and cyclin-CDK complexes; playing a role in the regulation of cell cycle progression at G1 ([Cerqueira \*et al.\* 2014](#)).

Phosphorylation of p27/Kip1 at threonine 187 by CDK2 leads to the ubiquitination and subsequent degradation of p27/Kip by the 26S proteasome ([Das \*et al.\* 2016](#)).

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**Further Reading**

1. Cerqueira, A. *et al.* (2014) Genetic characterization of the role of the Cip/Kip family of proteins as cyclin-dependent kinase inhibitors and assembly factors. [Mol Cell Biol. 34 \(8\): 1452-9.](#)
  2. Das, R.K. *et al.* (2016) Cryptic sequence features within the disordered protein p27Kip1 regulate cell cycle signaling. [Proc Natl Acad Sci U S A. 113 \(20\): 5616-21.](#)
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**Storage**

Store at -20°C

Storage in frost-free freezers is not recommended.

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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10049 available at: <https://www.bio-rad-antibodies.com/SDS/AHP2662>  
10049

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

## Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M376951:210212'

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