

Datasheet: AHP2662

BATCH NUMBER 141619

Description:	RABBIT ANTI p27/Kip1 (pThr187)
Specificity:	p27/Kip1 (pThr187)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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

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

External Database Links

UniProt:

[P46527](#) [Related reagents](#)

Entrez Gene:

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

Synonyms KIP1

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](#)).

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.

Guarantee

12 months from date of despatch

Health And Safety Information

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Recommended Useful Reagents

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

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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
'M337863:181217'

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