

## Product datasheet

# Anti-CDKN2A/p19ARF antibody [5-C3] - BSA and Azide free ab174939

1 Image

### Overview

<b>Product name</b>	Anti-CDKN2A/p19ARF antibody [5-C3] - BSA and Azide free
<b>Description</b>	Rat monoclonal [5-C3] to CDKN2A/p19ARF - BSA and Azide free
<b>Host species</b>	Rat
<b>Tested applications</b>	<b>Suitable for:</b> IHC-FoFr, WB, IP, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Does not react with:</b> Hamster, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Mouse CDKN2A/p19ARF conjugated to keyhole limpet haemocyanin.
<b>Positive control</b>	3T3 cell lystate positive control.
<b>General notes</b>	<p>ab174939 is the carrier-free version of <a href="#">ab26696</a>.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be</p>

found below, along with publications, customer reviews and Q&As

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	IgG fraction
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	5-C3
<b>Myeloma</b>	Y3/Ag1.2.3
<b>Isotype</b>	IgG2b

## Applications

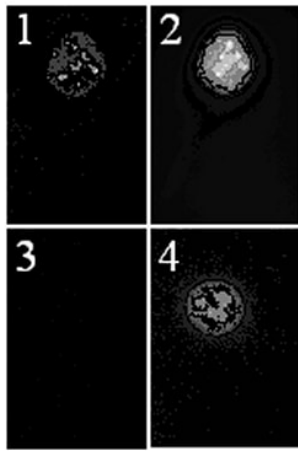
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab174939 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FoFr		Use at an assay dependent concentration.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 17 kDa.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

## Target

<b>Relevance</b>	The gene for CDK2NA generates several transcripts/proteins which differ from each other in their first exons. Three of these transcripts are generated by alternative splicing (isoform 1 a.k.a p16INK4A, isoform 2 and isoform 3 a.k.a p12), two of which are known to function as inhibitors of CDK4 kinase. One other transcript that is generated from this gene contains an alternate reading frame (ARF), with the first exon located 20kb upstream of the remainder of the gene (isoform 4 a.k.a. p14ARF, p19ARF, ARF). In spite of the structural and some functional differences, all the proteins encoded by the CDKN2A gene are involved in cell cycle G1 control.
<b>Cellular localization</b>	Nuclear

## Images



Immunocytochemistry/ Immunofluorescence - Anti-CDKN2A/p19ARF antibody [5-C3] - BSA and Azide free (ab174939)

This ICC/IF data was generated using the same antibody clone in a different buffer formulation ([ab26696](#)).

Immunofluorescent detection of p19ARF. MEF cells (1 and 2) or NIH3T3 cells with arf gene deleted (3 and 4) were stained with anti-p19ARF 5C3 followed by a fluorescent-labelled anti-rat IgG (1 and 3) and Hoechst dye to visualise nuclei (2 and 4).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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