

## Product datasheet

### Anti-CDKN2A/p19ARF antibody ab80

★★★★★ [15 Abreviews](#) [220 References](#) [2 Images](#)

#### Overview

<b>Product name</b>	Anti-CDKN2A/p19ARF antibody
<b>Description</b>	Rabbit polyclonal to CDKN2A/p19ARF
<b>Host species</b>	Rabbit
<b>Specificity</b>	<p>On Western blot the antibody reveals IVT murine p19ARF and a band of the same size in CTLL2 cells. It detects a specific band in WT mouse embryo fibroblasts which is not present in p19ARF-null MEFs.</p> <p>Replenishment batches of ab80 are tested in WB. Previous batches were additionally validated in ELISA, ICC, ICC/IF, IHC-Fr and IHC-P. These applications are still expected to work and are covered by our Abpromise guarantee.</p>
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-Fr, ELISA, ICC, WB, IHC-P
<b>Species reactivity</b>	<p><b>Reacts with:</b> Mouse</p> <p><b>Does not react with:</b> Rat, Human</p>
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>A monoclonal alternative to this target is available (<a href="#">ab26696</a>).</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 found below, along with publications, customer reviews and Q&amp;As</p>

#### 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>	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	The serum has been purified on a peptide-NHS-activated Sepharose column. Specific antibodies have been eluted with 100 mM glycine pH 2.5. The purified antibodies have been dialysed against PBS pH 7.4.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab80 in the following tested applications.

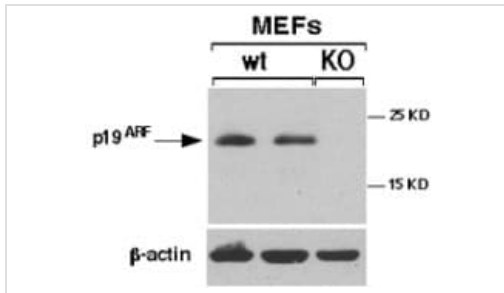
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (3)	Use at an assay dependent concentration.
IHC-Fr	★★★★★ (2)	Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
ICC		Use a concentration of 1 µg/ml. Fix with a 1:1 mixture of methanol:acetone at -20C for 10 mins (see image by Dr. David Bertwistle).
WB	★★★★★ (7)	1/1000. Detects a band of approximately 19 kDa (predicted molecular weight: 17 kDa). Multiple bands with this antibody have frequently been reported. We believe that this is due to the different modification states of p19ARF. Nuclear extraction may be necessary in some samples.
IHC-P	★★★★★ (2)	Use at an assay dependent concentration. PubMed: 11726500

## 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



Western blot - Anti-CDKN2A/p19ARF antibody (ab80)

This image is courtesy of Charles Sherr

**All lanes :** Anti-CDKN2A/p19ARF antibody (ab80) at 1 µg/ml

**Lanes 1-2 :** mouse embryonic fibroblast total cell extract.

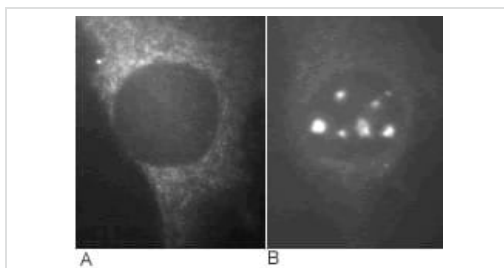
**Lane 3 :** mouse embryonic fibroblast total cell extract, with the p19ARF gene knocked out as a negative control.

Lysates/proteins at 30 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 17 kDa

Western blot of primary Mouse Embryo Fibroblasts (MEFs) using ab80 at 1 µg/ml. (30 µg of protein from total cell extracts per lane.)



Immunocytochemistry - Anti-CDKN2A/p19ARF antibody (ab80)

Pictures were generously provided by Dr. David Bertwistle

ab80 antibody was tested on NIH 3T3 cells (which have a deletion of the p19ARF gene) as a negative control (-) and NIH 3T3 cells engineered to express HA-tagged p19ARF as a positive control (+).

Cells grown on coverslips were fixed with a 1:1 mixture of methanol:acetone at -20C for 10 mins. After drying, rehydrating and blocking, the co

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