

## p19arf

<b>CONTACT INFORMATION:</b>	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
<b>STATUS:</b>	Validated
<b>TYPE:</b>	Rat monoclonal
<b>CLONE NAME:</b>	PIL346C
<b>PROTEIN:</b>	Cdkn2a
<b>PROTEIN WEB:</b>	<a href="https://www.uniprot.org/uniprot/Q64364">https://www.uniprot.org/uniprot/Q64364</a>
<b>ANTIGEN USED:</b>	His-MBP-mp19arf
<b>FUSION PARTNER:</b>	NS1/Ag4-1 (NS1) cells
<b>ISOTYPE:</b>	IgG2b
<b>SPECIES REACTIVITY:</b>	mouse
<b>PREPARATION AND STORAGE:</b>	Aliquot and store at 4C. Do not freeze

### DESCRIPTION

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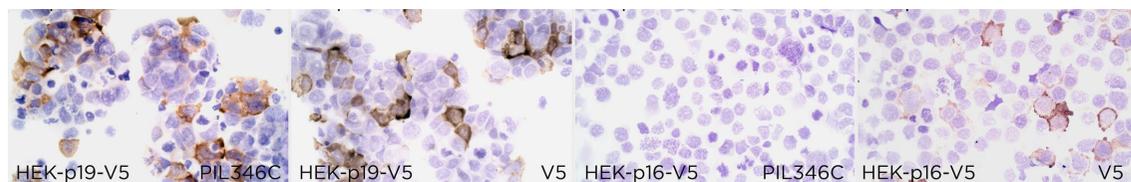
Capable of inducing cell cycle arrest in G1 and G2 phases. Acts as a tumor suppressor. Binds to MDM2 and blocks its nucleocytoplasmic shuttling by sequestering it in the nucleolus. This inhibits the oncogenic action of MDM2 by blocking MDM2-induced degradation of p53 and enhancing p53-dependent transactivation and apoptosis. Also induces G2 arrest and apoptosis in a p53-independent manner by preventing the activation of cyclin B1/CDC2 complexes. Binds to BCL6 and down-regulates BCL6-induced transcriptional repression. Binds to E2F1 and MYC and blocks their transcriptional activator activity but has no effect on MYC transcriptional repression. Binds to TOP1/TOPOI and stimulates its activity. This complex binds to rRNA gene promoters and may play a role in rRNA transcription and/or maturation. Interacts with NPM1/B23 and promotes its polyubiquitination and degradation, thus inhibiting rRNA processing. Interacts with COMMD1 and promotes its 'Lys63'-linked polyubiquitination (By similarity). Interacts with UBE2I/UBC9 and enhances sumoylation of a number of its binding partners including MDM2 and E2F1. Binds to HUWE1 and represses its ubiquitin ligase activity. May play a role in controlling cell proliferation and apoptosis during mammary gland development. Isoform smARF may be involved in regulation of autophagy and caspase-independent cell death; the short-lived mitochondrial isoform is stabilized by C1QBP.

### APPLICATIONS

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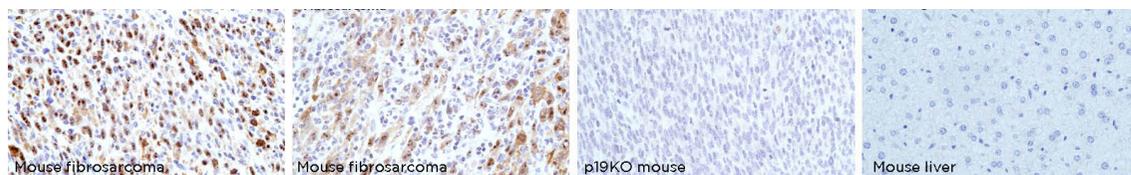
## Monoclonal Antibodies Catalogue

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
<b>Frozen tissue and cytopspins</b>									
Recommended	PIL346C	Neat	supernatant						
<b>Paraffin tissue</b>									
Recommended	PIL346C	1:10	supernatant			Fibrosarcoma	Liver	nuclear	
<b>Immunofluorescence</b>									



### **PIL346C mAb is able to detect mouse p19 protein in immunocytochemistry**

To confirm that PIL346C mAb recognizes human p19 protein, immunocytochemistry on frozen cytopspin preparations of p19 and p16 expressed in HEK293 cells was performed. Anti-V5 confirmed the transfection efficiency.



### **PIL346C mAb can be used to detect mouse p19 protein by immunohistochemistry**

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species

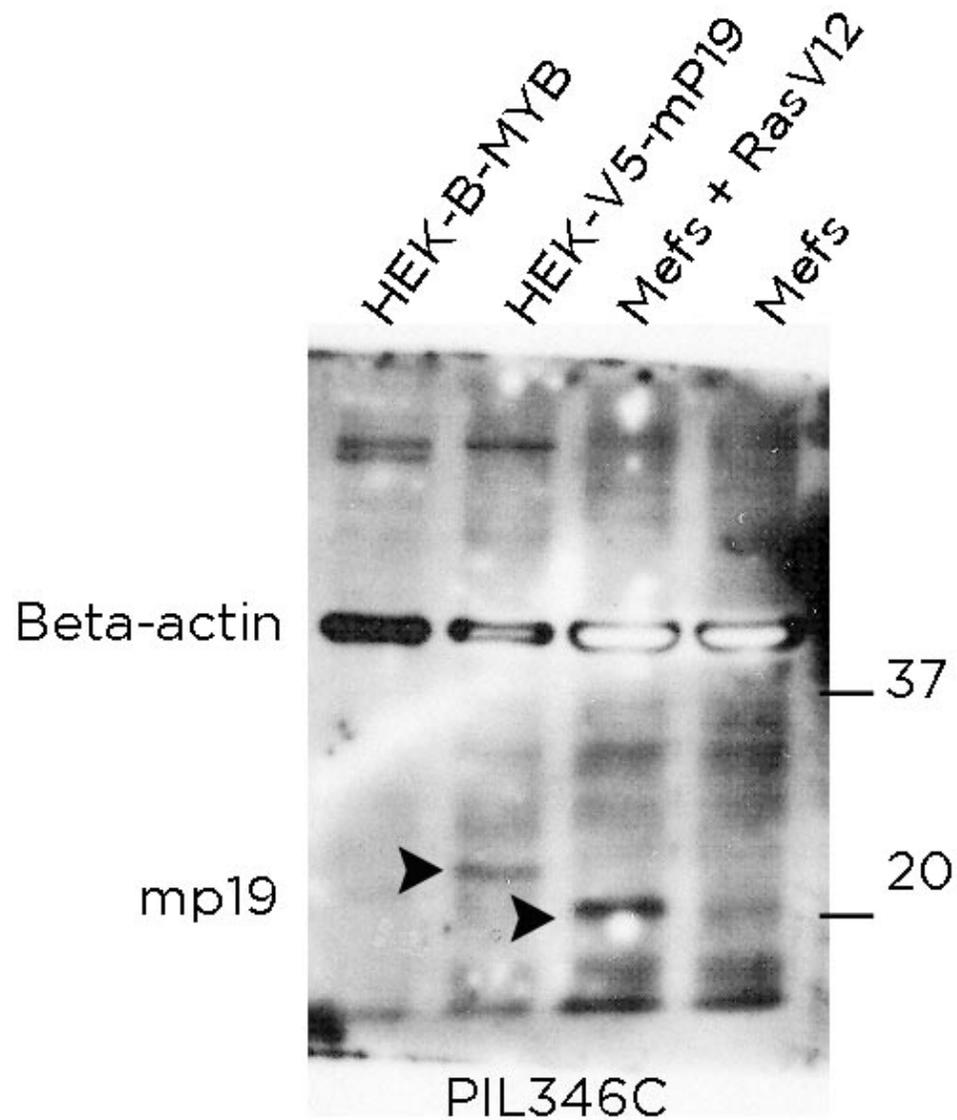
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### Western Blotting

Recommended	PIL346C	Neat	supernatant			19kDa	19kDa	
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### Immunoprecipitation



**PIL346C mAb is able to detect mouse p19 protein by WB**  
LANES

Lane 1 HEK-B-MYB (20ug) (-)

Lane 2 HEK-V5-mP19 (20ug) (+)

Lane 3 Mefs RASV12 (50ug) (+)

Lane 4 Mef (50ug) (-)

Beta actin was used as loading control.