

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	rat anti mouse
CLONE NAME:	PAT56B
PROTEIN:	Mouse cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) (Cdkn2b)
ANTIGEN USED:	HIS-GST-mp15 recombinant protein
FUSION PARTNER:	myeloma p3-NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG2a
SPECIES REACTIVITY:	mouse
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze

## DESCRIPTION

This gene lies adjacent to the tumor suppressor gene CDKN2A in a region that is frequently mutated and deleted in a wide variety of tumors. This gene encodes a cyclin-dependent kinase inhibitor, also known as p15Ink4b protein, which forms a complex with CDK4 or CDK6, and prevents the activation of the CDK kinases by cyclin D, thus the encoded protein functions as a cell growth regulator that inhibits cell cycle G1 progression.

## REFERENCES

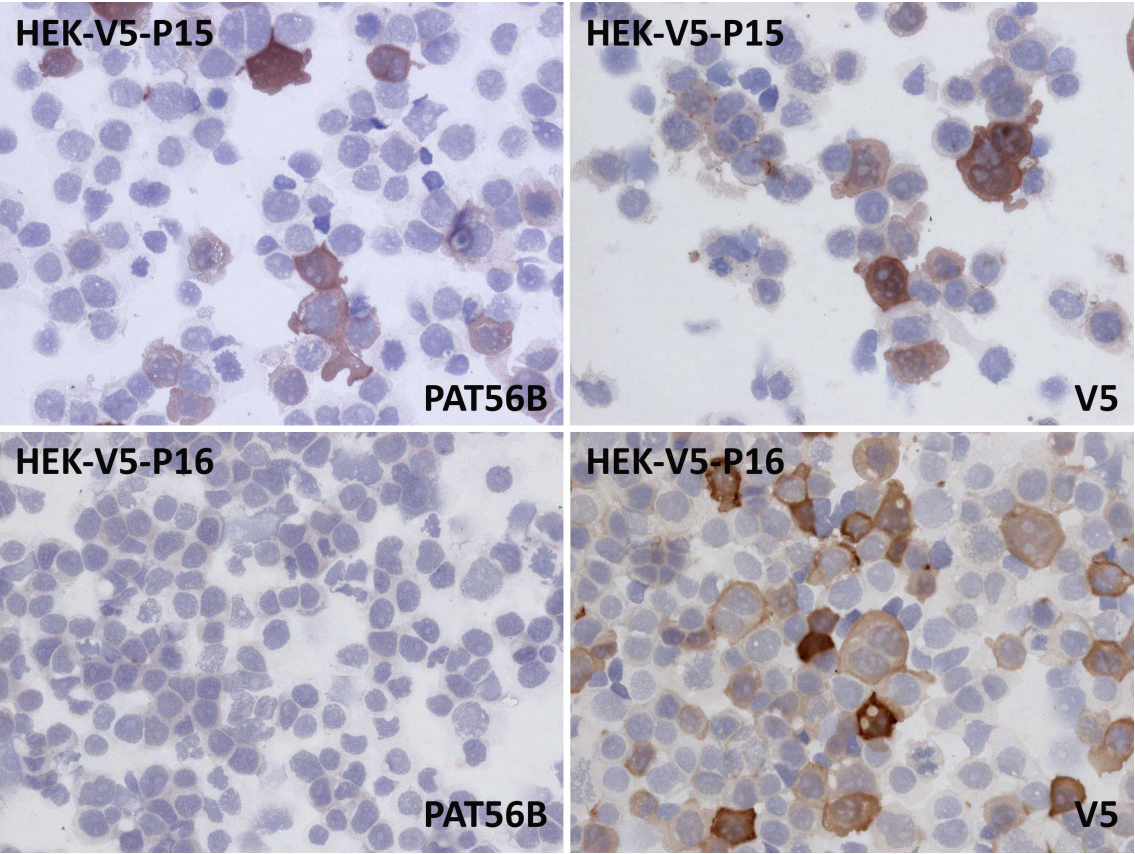
Muñoz-Espín D, Cañamero M, Maraver A, Gómez-López G, Contreras J, Murillo-Cuesta S, Rodríguez-Baeza A, Varela-Nieto I, Ruberte J, Collado M, Serrano M. Programmed cell senescence during mammalian embryonic development. Cell. 2013 Nov 21;155(5):1104-18.

## APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopspins									
Paraffin tissue									

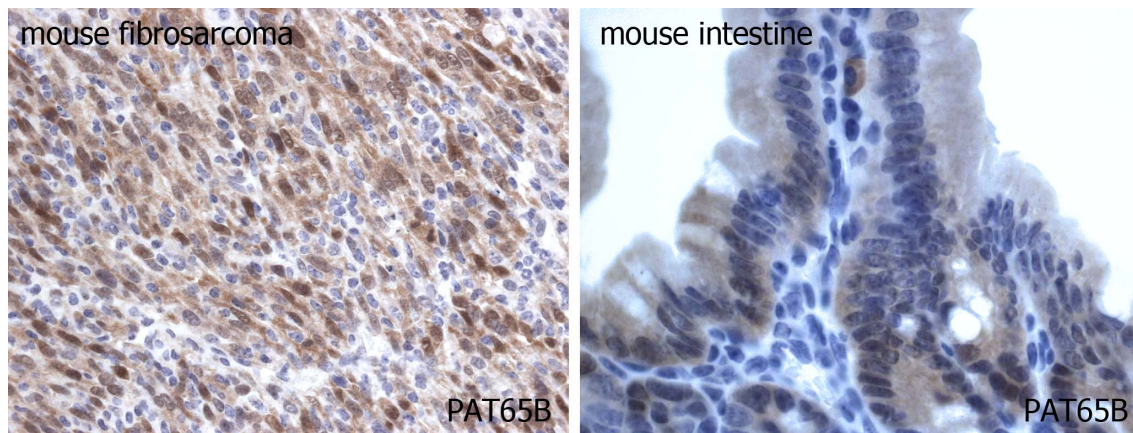
Recommended	PAT56 B	1:2	supernatant			mouse fibrosarcoma		nuclear	
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Immunofluorescence



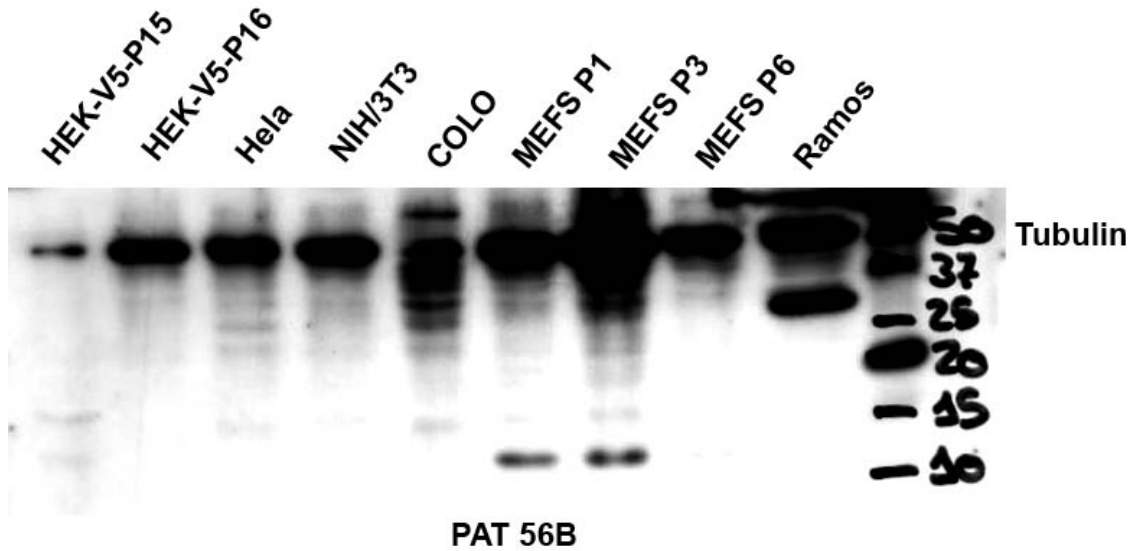
**mp15 antibody (PAT56B) in transfected cells**

Nuclear and cytoplasmic staining of PAT56B mAb in transfected HEK293-V5-mp15 cells. No reactivity with mp16 was found. Anti-V5 was used as a positive control.



**PAT56B antibody in mouse paraffin tissues.**

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
<b>Western Blotting</b>								
Recommended	PAT56B	Neat supernatant	supernatant			14kDa	14kDa	
<b>Immunoprecipitation</b>								



#### Western Blott of PAT56B antibody in mouse and human extracts

Lane 1 Hek-V5-p15 (30?g) (+)

Lane 2 Hek-v5-p16 (30?g) (-)

Lane 3 Hela cell line (30?g) (-)

Lane 4 NIH/3T3 cell line (100?g) (-)

Lane 5 COLO cell line (100?g) (-)

Lane 6 Mefs (100?g) (+)

Lane 7 Mefs (100?g) (+)

Lane 8 Mefs (100?g) (-)

Lane 9 Ramos cell line (100?g) (-)

Anti-Tubulin was used as loading control.