

## CDKN2A / p16INK4a / p14ARF Antibody

Mouse Monoclonal Antibody [Clone 4C6/4]

Catalog No	Format	Size
1029-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1029-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1029-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

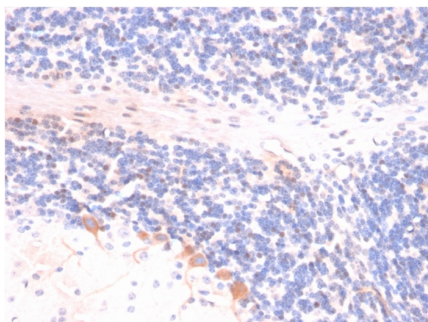
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

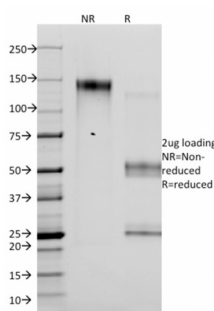
Clone	4C6/4
Gene Name	CDKN2A
Immunogen	Recombinant full-length human p14 ARF protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	14kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human, Rat
Positive Control	H1299 and HeLa cells; human prostate carcinoma., MCF7

*\*Optimal dilution for a specific application should be determined.*

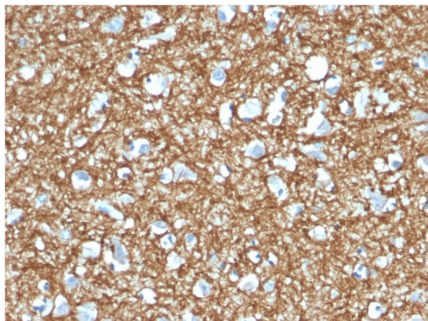
### Product Images for CDKN2A / p16INK4a / p14ARF Antibody



Formalin-fixed, paraffin-embedded rat Brain stained with p14ARF Mouse Monoclonal Antibody (4C6/4).



SDS-PAGE Analysis of Purified p14ARF Mouse Monoclonal Antibody (4C6/4). Confirmation of Integrity and Purity of Antibody.



Formalin-fixed, paraffin-embedded human Brain stained with p14ARF Mouse Monoclonal Antibody (4C6/4).

### Specificity & Comments

The progression of cells through the cell cycle is regulated by a family of proteins designated cyclin-dependent kinases (Cdks). Sequential activation of individual members of this family and their consequent phosphorylation of critical substrates promotes orderly progression through the cell cycle. Multiple proteins are encoded by the tumor suppressor gene CDKN2A (MTS1/ p16INK4a) via translation of alternate reading frames, resulting in the production of the p19 ARF protein in mice and the p14 ARF protein in humans. p14 ARF induces an increase in MDM2 and p21 levels and leads to cell cycle arrest in both G1 and G2/M. p14 ARF is negatively regulated by p53 and is known to bind directly to MDM2. CDKN2A also encodes the mitotic protein p16, which binds to and inhibits the Cdk4/cyclin D complex.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Bladder Cancer, Cancer, Cardiovascular, Defective Intrinsic Apoptosis, Infectious Disease, Nuclear Marker, Transcription Factors