

### 36-2028: Anti-p14ARF Monoclonal Antibody (Clone: 4C6/4)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	4C6/4
<b>Application :</b>	FACS,IF,WB,IHC
<b>Reactivity :</b>	Human, Rat
<b>Gene :</b>	ARF
<b>Gene ID :</b>	1029
<b>Uniprot ID :</b>	P42771
<b>Alternative Name :</b>	ARF; CDK4 inhibitor p16 INK4; CDK4I; CDKN2; CDKN2A; Cell cycle negative regulator beta; CMM2; Cyclin dependent kinase 4 inhibitor A; Cyclin dependent kinase inhibitor 2A; INK4; INK4a; Melanoma p16 inhibits CDK4; MLM; MTS 1; MTS1; Multiple tumor suppressor 1; p14; p16; p16 INK4a; p16INK4a; p19; P19ARF; TP16
<b>Isotype :</b>	Mouse IgG2a, kappa
<b>Immunogen Information :</b>	Recombinant full-length human p14 ARF protein

#### Description

The progression of cells through the cell cycle is regulated by a family of proteins designated cyclin-dependent kinases (Cdk). 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.

#### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200µg/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.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months.

#### Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 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&degC followed by cooling at RT for 20 minutes);

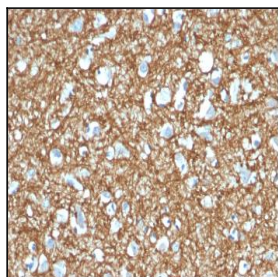


Fig.1: Formalin-fixed, paraffin-embedded human Brain stained with p14ARF Mouse Monoclonal Antibody (4C6/4).

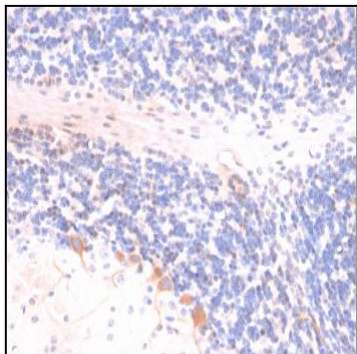


Fig. 2: Formalin-fixed, paraffin-embedded rat Brain stained with p14ARF Mouse Monoclonal Antibody (4C6/4).

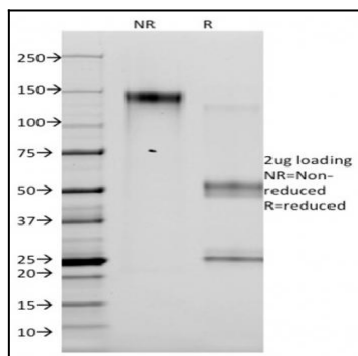


Fig. 3: SDS-PAGE Analysis Purified p14ARF Mouse Monoclonal Antibody (4C6/4). Confirmation of Integrity and Purity of Antibody.