## For Research Use Only

## P16-INK4A Monoclonal antibody

Catalog Number: 60626-1-Ig



**Basic Information** 

Catalog Number: GenBank Accession Number: 60626-1-lg BC021998

Concentration:GeneID (NCBI):CloneNo.:1000 ug/ml10291C9D3

Source: UNIPROT ID: Recommended Dilutions:

Mouse P42771 WB 1:1000-1:5000

Isotype: Full Name: IHC 1:2500-1:10000

IgG2a cyclin-dependent kinase inhibitor 2A IF/ICC 1:500-1:2000

Immunogen Catalog Number: Calculated MW:

AG1328 16 kDa

Observed MW: 16 kDa

**Applications** 

Tested Applications: WB, IHC, IF/ICC, ELISA Species Specificity:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

Positive Controls:

WB: SiHa cells, HeLa cells, HEK-293 cells, TF-1 cells

**Purification Method:** 

Protein A purification

IHC: human tonsillitis tissue,

IF/ICC : HeLa cells,

## **Background Information**

P16-INK4A is also named as CDKN2A, MLM, Tumor suppressor ARF, Alternative reading frame. The tumor suppressor protein p16Ink4a (encoded from the CDKN2A locus) is often transcriptionally activated in cells undergoing senescence and is one of the main regulators of this program, and it is upregulated in multiple tissues during aging (PMID:17055429). p16-Ink4a is the principal member of the Ink4 family of CDK inhibitors. p16-Ink4a contributes to the regulation of cell cycle progression by inhibiting the S phase. p16Ink4a binds to CDK4/6, inhibiting cyclin D-CDK4/6 complex formation and CDK4/6-mediated phosphorylation of Rb family members. Expression of p16-Ink4a maintains the Rb family members in a hypophosphorylated state, which promotes binding to E2F1 and leads to G1 cell cycle arrest (PMID: 21297668).

Storage

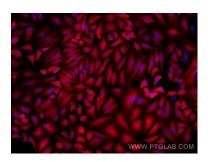
Storage:

Store at -20°C. Stable for one year after shipment. Storage Buffer:

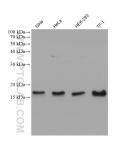
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

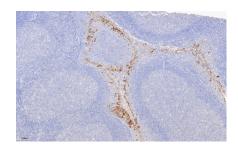
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Hela cells using P16-INK4A antibody (60626-1-Ig, Clone: 1C9D3) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



Various lysates were subjected to SDS PAGE followed by western blot with 60626-1-1g (P16-INK4A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 60626-1-Ig (P16-INK4A antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).