

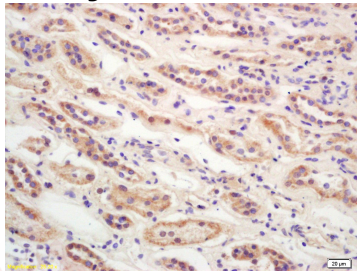
Anti-CDKN2A Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 17 kDa.
Purification:	Protein A purified

Applications

Verified Activity: Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-CDKN2A/p16-INK4a Polyclonal Antibody, Unconjugated (TMAB-00411) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.



Application:	IF,IHC-Fr,IHC-P
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human p16-INK4a
Antigen Species:	Human
Gene ID:	1029
Uniprot ID:	P42771
Synonyms:	cyclin-dependent kinase inhibitor 2A;cyclin-dependent kinase inhibitor 2a p19Arf;CD2A2; CDK4I;p16;INK4A;p16-INK4a;cell cycle inhibitor;Arf;MTS1;p16-INK4;cyclin-dependent kinase inhibitor 2a p16Ink4a;cell cycle regulator;cyclin-dependent kinase inhibitor 2A, isoform 2;Cyclin dependent kinase inhibitor 2A(p16, inhibits CDK4);cyclin-dependent kinase 4 inhibitor A; p19ARF;Cdkn2a;cyclin-dependent kinase inhibitor 2A, isoform 1;p16Cdkn2a
Biology Area:	Ink4,p53 pathway,Ink4,Ink4,Tumor Suppressors

Research Background

This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene; this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, the E3 ubiquitin-protein ligase MDM2, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene. [provided by RefSeq, Sep 2012].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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