

Anti-CDKN2A Polyclonal Antibody 2

Product Details

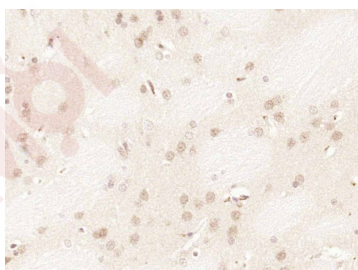
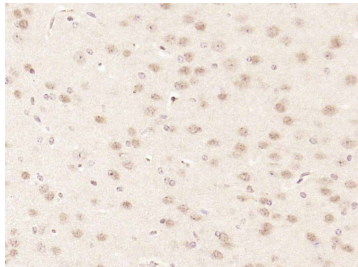
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig)
Molecular Weight:	Theoretical: 17 kDa. Actual: 17 kDa.
Purification:	Protein A purified

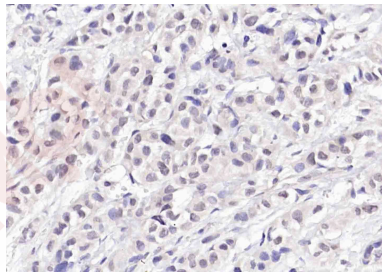
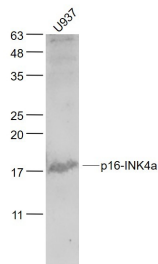
Applications

1. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (CDKN2A) Polyclonal Antibody, Unconjugated (TMAB-00412) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (CDKN2A) Polyclonal Antibody, Unconjugated (TMAB-00412) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Verified Activity:

3. Sample:
U937 (Human) Cell Lysate at 30 µg
Primary: Anti-CDKN2A/p16-INK4a (TMAB-00412) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 17 kDa
Observed band size: 17 kDa
4. Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (CDKN2A/p16-INK4a) Polyclonal Antibody, Unconjugated (TMAB-00412) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.





Application: IHC-P,IHC-F,IF

Recommended IHC-P=1:100-500,IHC-F=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 CDKN2A/p16-INK4a

Antigen Species: Human

Gene ID: 1029

Uniprot ID: P42771

Synonyms: cyclin-dependent kinase 4 inhibitor A;Arf;cyclin-dependent kinase inhibitor 2a p19Arf;Cyclin dependent kinase inhibitor 2A(p16, inhibits CDK4);Cdkn2a;CD2A2;cyclin-dependent kinase inhibitor 2A;MTS1;CDK4I;cyclin-dependent kinase inhibitor 2a p16Ink4a;cell cycle inhibitor; INK4A;p16-INK4a;p19ARF;cell cycle regulator;cyclin-dependent kinase inhibitor 2A, isoform 2; cyclin-dependent kinase inhibitor 2A, isoform 1;p16;p16Cdkn2a;p16-INK4

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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481