

## Product datasheet for TA366683

### p16INK4A (CDKN2A) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-200 Positive control: Human tonsil Predicted cell location: Nucleus
Reactivity:	Human, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human CDKN2A
Formulation:	pH7.4 PBS, 0.05% NaN3, 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Gene Name:	cyclin-dependent kinase inhibitor 2A
Database Link:	<a href="#">Entrez Gene 1029 Human</a> <a href="#">P42771</a>

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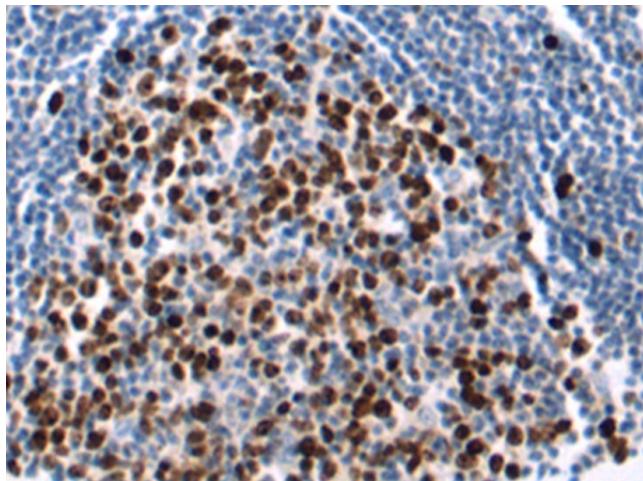
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**Background:**

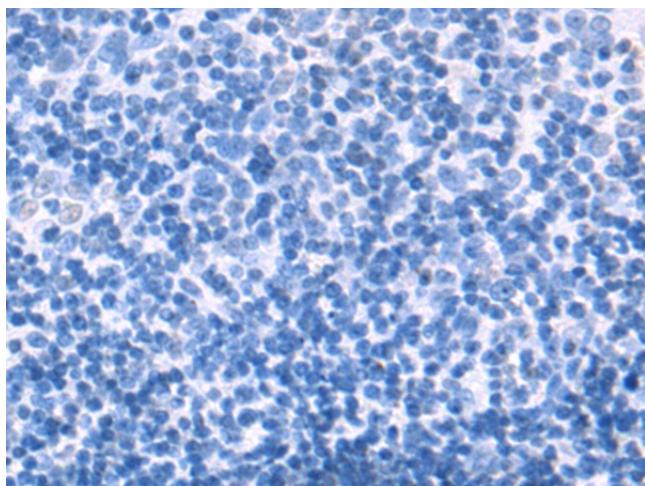
This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes 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.

**Synonyms:**

ARF; CDK4I; CDKN2; CMM2; INK4; INK4a; MLM; MTS-1; MTS1; OTTHUMP00000021148; p14; p14ARF; p16; p16-INK4; p16-INK4a; p16INK4; p16INK4a; p19; p19Arf; TP16

**Product images:**

Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA366683 (CDKN2A Antibody) at dilution 1/60 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA366683 (CDKN2A Antibody) at dilution 1/60, treated with fusion protein. (Original magnification:  $\times 200$ )